STR-K1500

SERVICE MANUAL

E Model
Australian Model

Ver. 1.1 2006.05

- STR-K1500 is the tuner and the amplifier section in HT-DDW1500.

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SPECIFICATIONS

Amplifier section

Models of area code SP, SP6, MX, E51

Power Output[1)]

6 ohms 1 kHz, THD 10%

FRONT[2)]	:	140 W/ch
CENTER[2)]	:	140 W
SUR[2)]	:	140 W/ch
SUR BACK[2)]	:	140 W

Music power output

FRONT[2)]	:	185 W/ch
CENTER[2)]	:	185 W
SUR[2)]	:	185 W/ch
SUR BACK[2)]	:	185 W

Models of area code AUS

Power Output[1)]

6 ohms 120 Hz – 20 kHz, THD 0.09%

FRONT[2)]	:	75 W/ch
CENTER[2)]	:	75 W
SUR[2)]	:	75 W/ch
SUR BACK[2)]	:	75 W

6 ohms 1 kHz, THD 0.7%

FRONT[2)]	:	100 W/ch
CENTER[2)]	:	100 W
SUR[2)]	:	100 W/ch
SUR BACK[2)]	:	100 W

6 ohms 1 kHz, THD 10%

FRONT[2)]	:	140 W/ch
CENTER[2)]	:	140 W
SUR[2)]	:	140 W/ch
SUR BACK[2)]	:	140 W

Music power output

FRONT[2)]	:	185 W/ch
CENTER[2)]	:	185 W
SUR[2)]	:	185 W/ch
SUR BACK[2)]	:	185 W

1) Measured under the following conditions:

Area code	Power requirements
SP, SP6	230 V AC, 50 Hz
AUS, E51	240 V AC, 50 Hz
MX	127 V AC, 60 Hz

2) Depending on the sound field settings and the source, there may be no sound output.

Inputs (Analog)

MULTI CH IN, SA-CD/CD, MD/TAPE, DVD, VIDEO 1, 2, 3	Sensitivity: 800 mV Impedance: 50 kohms

Inputs (Digital)

DVD (Coaxial)	Sensitivity: – Impedance: 75 ohms
VIDEO 1, 2 (Optical)	Sensitivity: – Impedance: –

Outputs (Analog)

MD/TAPE (OUT), VIDEO 1 (AUDIO OUT)	Voltage: 800 mV Impedance: 10 kohms
SUB WOOFER	Voltage: 2 V Impedance: 1 kohm

Reproduction frequency range:
28 – 20,000 Hz

Tone

Gain levels	±6 dB, 1 dB step

FM tuner section

Tuning range	87.5 - 108.0 MHz
Antenna	FM wire antenna
Antenna terminals	75 ohms, unbalanced
Intermediate frequency	10.7 MHz

— Continued on next page —

MULTI CHANNEL AV RECEIVER

9-887-157-02
2006E16-1
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Sony Corporation
Home Audio Division
Published by Sony Techno Create Corporation

SONY

AM tuner section

Tuning range

Models of area code SP, SP6, AUS

With 9-kHz tuning scale:
531 – 1,602 kHz

Models of area code E51

With 10-kHz tuning scale:
530 – 1,610 kHz[4)]

With 9-kHz tuning scale:
531 – 1,602 kHz[4)]

Models of area code MX

With 10-kHz tuning scale:
530 – 1,610 kHz

Antenna: Loop antenna

Intermediate frequency
450 kHz

4) You can change the AM tuning scale to 9 kHz or 10 kHz. After tuning in any AM station, turn off the receiver. While holding down TUNING MODE, press I/⏻. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

Video section

Inputs/Outputs

Video: 1 Vp-p, 75 ohms

COMPONENT VIDEO:
Y: 1 Vp-p, 75 ohms
P_B/C_B/B-Y: 0.7 Vp-p, 75 ohms
P_R/C_R/R-Y: 0.7 Vp-p, 75 ohms
80 MHz HD Pass Through

- Abbreviation
  AUS : Australian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  SP : Singapore model
  SP6 : Singapore and Malaysia models

General

Power requirements

Area code	Power requirements
SP, SP6	230 – 240 V AC, 50/60 Hz
AUS	240 V AC, 50 Hz
MX	127 V AC, 60 Hz
E51	120/220/240 V AC, 50/60 Hz

Power consumption 200 W

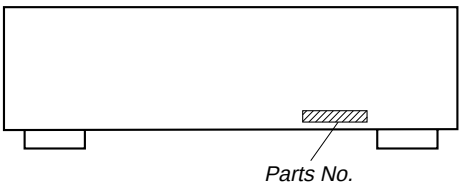
Power consumption (during standby mode)
0.2 W

Dimensions (w/h/d) (Approx.)
430 × 157.5 × 316 mm including projecting parts and controls

Mass (Approx.) 8.0 kg

Design and specifications are subject to change without notice.

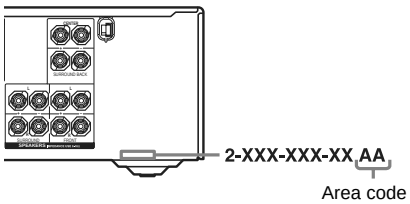
MODEL IDENTIFICATION
– Rear Panel –



Model	Part No.
E51 model	2-663-099-2□
SP, SP6 models	2-663-099-3□
AUS model	2-663-099-4□
MX model	2-663-099-5□

About area codes

The area code of the receiver you purchased is shown on the lower right portion of the rear panel (see the illustration below).



Any differences in operation, according to the area code, are clearly indicated in the text, for example, “Models of area code AA only”.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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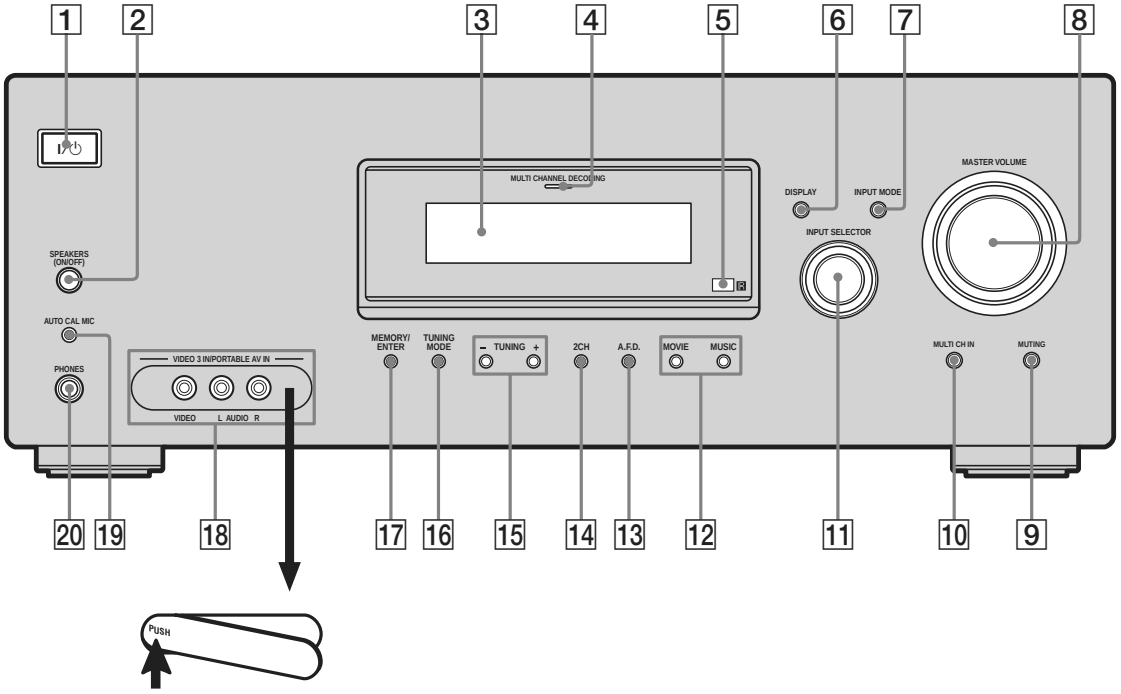
SECTION 1
GENERAL

This section is extracted from instruction manual.

Receiver

Front panel



To remove the cover

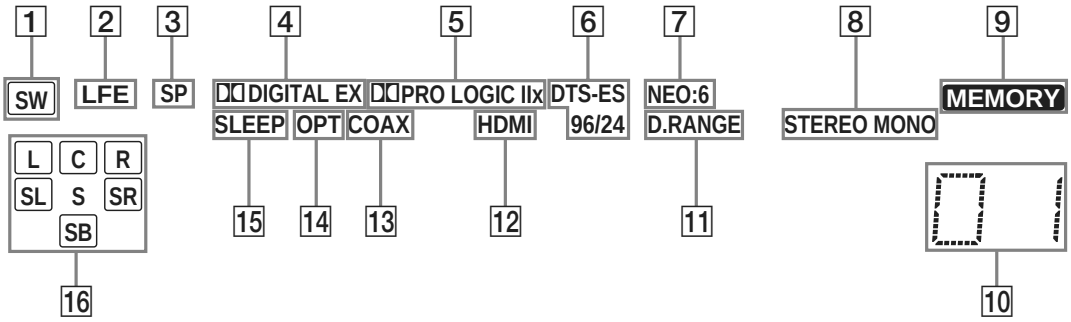
Press PUSH.

When you remove the cover, keep it out of reach from children.

Name	Function
1 **I/⏻**	Press to turn the receiver on or off.
2 **SPEAKERS (ON/OFF)**	Press to turn the speakers and sub woofers on or off.
3 **Display**	The current status of the selected component or a list of selectable items appears here.
4 **MULTI CHANNEL DECODING lamp**	Lights up when multi channel audio is decoded.
5 **Remote sensor**	Receives signals from remote commander.
6 **DISPLAY**	Press to select information displayed on the display.
7 **INPUT MODE**	Press to select the input mode when the same components are connected to both digital and analog jacks.
8 **MASTER VOLUME**	Turn to adjust the volume level of all speakers at the same time.

Name	Function
9 **MUTING**	Press to mute the sound.
10 **MULTI CH IN**	Press to select the audio directly from the components connected to the MULTI CH IN jacks.
11 **INPUT SELECTOR**	Turn to select the input source to playback.
12 **MOVIE, MUSIC**	Press to select sound fields (MOVIE, MUSIC).
13 **A.F.D.**	Press to select A.F.D. mode.
14 **2CH**	Press to select 2CH STEREO mode.
15 **TUNING +/–**	Press to scan a station.
16 **TUNING MODE**	Press to select the tuning mode.
17 **MEMORY/ENTER**	Press to store a station or enter the selection when selecting the settings.
18 **VIDEO 3 IN/ PORTABLE AV IN jacks**	To connect a camcorder or video game.
19 **AUTO CAL MIC jack**	Connects to the supplied ECM-AC2 optimizer microphone for the Auto Calibration function.
20 **PHONES jack**	Connects to a headphone.

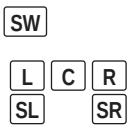
About the indicators on the display



Name	Function
1 **SW**	Lights up when the audio signal is output from the SUB WOOFER jack.
2 **LFE**	Lights up when the disc being played back contains an LFE (Low Frequency Effect) channel and the LFE channel signal is actually being reproduced.
3 **SP**	Lights up according to the speaker used. However, this indicator do not light up if the speaker output is turned off or if a headphone is connected.
4 **DIGITAL (EX)**	Lights up when Dolby Digital signals are input. "DIGITAL EX" lights up when Dolby Digital Surround EX signals are decoded. **Note** When playing a Dolby Digital format disc, be sure that you have made digital connections and that INPUT MODE is not set to "ANALOG".

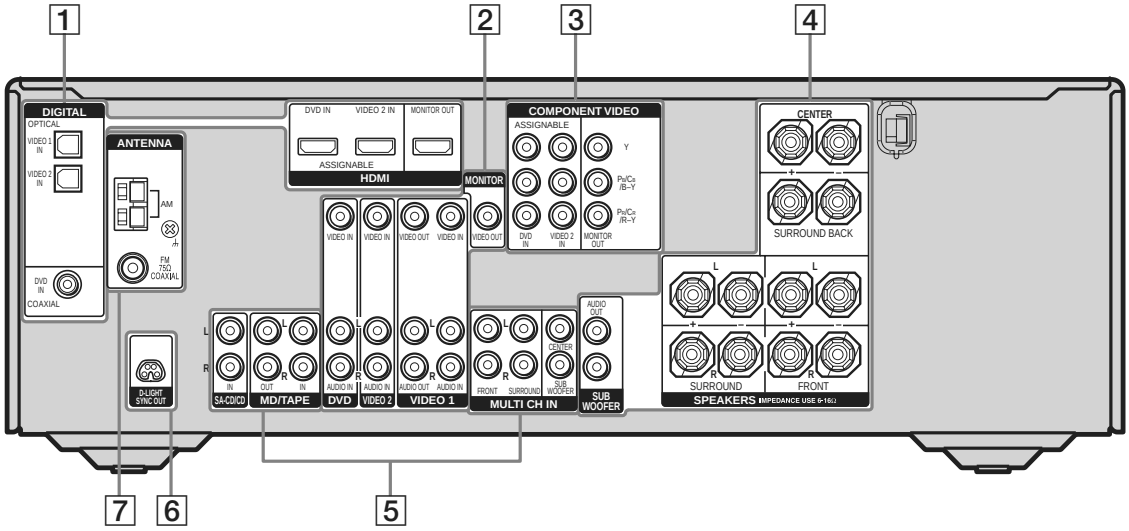
Name	Function
5 **PRO LOGIC (II)/ (IIx)**	"PRO LOGIC" lights up when the receiver applies Pro Logic processing to 2 channel signals in order to output the center and surround channel signals. "PRO LOGIC II" lights up when the Pro Logic II Movie/Music/Game decoder is activated. "PRO LOGIC IIx" lights up when the Pro Logic IIx Movie/ Music/Game decoder is activated. **Note** Dolby Pro Logic IIx decoding does not function for DTS format signals or for signals with a sampling frequency of more than 48 kHz.
6 **DTS (-ES)/ (96/24)**	"DTS" lights up when DTS signals are input. "DTS-ES" lights up when DTS-ES signals are input. "DTS 96/24" lights up when the receiver is decoding DTS 96 kHz/24 bit signals. **Note** When playing a DTS format disc, be sure that you have made digital connections and that INPUT MODE is not set to "ANALOG".
7 **NEO:6**	Lights up when DTS Neo:6 Cinema/Music decoder is activated.
8 **Tuner indicators**	Lights up when using the receiver to tune in radio stations, etc.

Name	Function
9 **MEMORY**	Lights up when a memory function, such as Preset Memory, etc., is activated.
10 **Preset station indicators**	Lights up when using the receiver to tune in radio stations you have preset. For details on presetting radio stations.
11 **D.RANGE**	Lights up when dynamic range compression is activated.
12 **HDMI***	Flashes when you select "HDMI A." in the VIDEO menu .
13 **COAX**	Lights up when INPUT MODE is set to "AUTO" and the source signal is a digital signal being input through the COAXIAL jack, or when INPUT MODE is set to "COAX IN".
14 **OPT**	Lights up when INPUT MODE is set to "AUTO" and the source signal is a digital signal being input through the OPTICAL jack, or when INPUT MODE is set to "OPT IN" .
15 **SLEEP**	Lights up when the Sleep Timer function is activated.

Name	Function
16 **Playback channel indicators**	The letters (L, C, R, etc.) indicate the channels being played back. The boxes around the letters vary to show how the receiver downmixes the source sound.
L	Front Left
R	Front Right
C	Center (monaural)
SL	Surround Left
SR	Surround Right
S	Surround (monaural or the surround components obtained by Pro Logic processing)
SB	Surround back (the surround back components obtained by 6.1 channel decoding)
	Example: Recording format (Front/Surround): 3/2.1 Sound Field: A.F.D. AUTO 

* Except for models of area code MX, E51.

Rear panel



1 DIGITAL INPUT/OUTPUT section

	OPTICAL IN jack	Connects to a DVD player, etc. The COAXIAL jack provides a better quality of loud sound.
	COAXIAL IN jack	
	HDMI IN/ MONITOR OUT jack[a)b)]	Connects to a DVD player, or a satellite tuner. The image and the sound are output to a TV or a projector.

2 VIDEO/AUDIO INPUT/OUTPUT section

White (L) / Red (R)	AUDIO IN/ OUT jack	Connects the video and audio jacks of a VCR or a DVD player.
Yellow	VIDEO IN/ OUT jack[a)]	

3 COMPONENT VIDEO INPUT/ OUTPUT section

Green / Blue / Red	COMPONENT VIDEO INPUT/ OUTPUT jack[a)]	Connects to a DVD player, TV, or a satellite tuner. You can enjoy high quality image.

4 SPEAKER section

	Connects to the speakers.
	Connects to the sub woofers.

5 AUDIO INPUT/OUTPUT section

White (L) / Red (R)	AUDIO IN/ OUT jack	Connects to an MD deck or CD player, etc.
White (L) / Red (R) / Black	MULTI CHANNEL INPUT jack	Connects to a Super Audio CD player or DVD player which has an analog audio jack for 5.1 channel sound.

6 D-LIGHT SYNC OUT section

	D-LIGHT SYNC OUT jack	Connects to a lighting device.

7 ANTENNA section

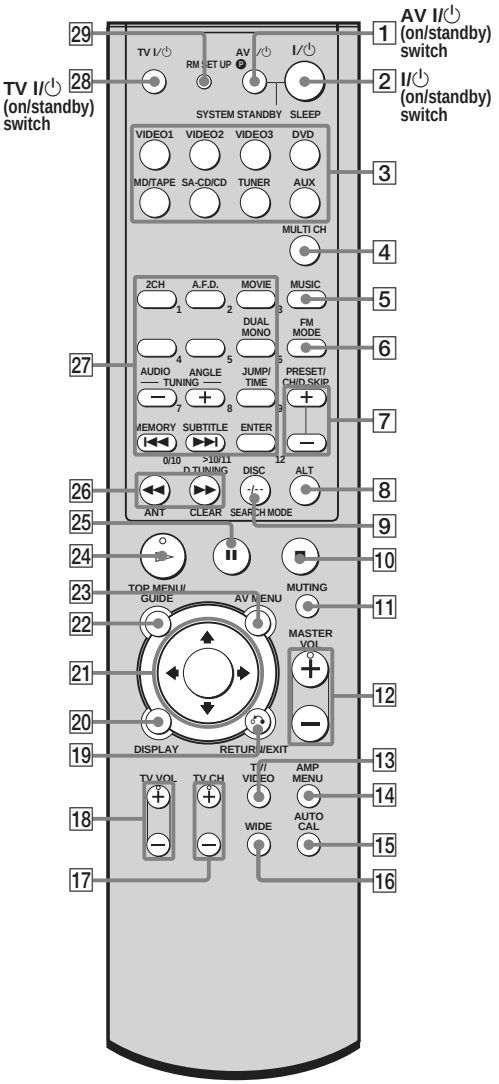
	FM ANTENNA	Connects to the FM wire antenna supplied with this receiver.
	AM ANTENNA	Connects to the AM loop antenna supplied with this receiver .

a) You can watch the selected input image when you connect the MONITOR OUT jack to a TV monitor.

b) Except for models of area code MX, E51 .

Remote commander

You can use the supplied remote RM-AAP013 to operate the receiver and to control the Sony audio/video components that the remote is assigned to operate. You can also program the remote to control non-Sony audio/video components. For details, see “Programming the remote”.



Name	Function
1 **AV I/⏻**	Press to turn on or off the audio/video components that the remote is programmed to operate. If you press **I**/⏻ (2) at the same time, it will turn off the receiver and other components (SYSTEM STANDBY). **Note** The function of the AV **I**/⏻ switch changes automatically each time you press the input buttons (3).
2 **I/⏻**	Press to turn the receiver on or off. To turn off all components, press **I**/⏻ and AV **I**/⏻ (1) at the same time (SYSTEM STANDBY).
SLEEP	Press ALT (8) and then press SLEEP to activate the Sleep Timer function and the duration which the receiver turns off automatically.
3 **Input buttons**	Press one of the buttons to select the component you want to use. When you press any of the input buttons, the receiver turns on. The buttons are factory assigned to control Sony components as follows. You can program the remote to control non-Sony components following the steps in "Programming the remote".

Button	Assigned Sony component
VIDEO1	VCR (VTR mode 3)
VIDEO2	VCR (VTR mode 1)
VIDEO3	VCR (VTR mode 2)
DVD	DVD player
MD/TAPE	MD deck
SA-CD/CD	Super Audio CD/CD player
TUNER	Built-in tuner
AUX*	Not assigned

* The AUX button is not available for receiver operation.

Name	Function
4 **MULTI CH**	Press to select the audio directly from the components connected to the MULTI CH IN jacks.
5 **MUSIC**	Press to select sound fields (MUSIC).
6 **FM MODE**	Press to select FM monaural or stereo reception.
7 **PRESET/ CH/D.SKIP +/–**	Press to – select preset stations. – select preset channels of the TV, VCR, satellite tuner, Blu-ray disc recorder, or hard disc recorder. – skip disc of the CD player, VCD player, DVD player, MD deck, or LD player (multi-disc changer only).
8 **ALT**	Press to light up the button. It changes the remote key function to activate the buttons with orange printing.
9 **-/--**	Press to select the channel entry mode, either one or two digit of the TV, Blu-ray disc recorder, hard disc recorder, PSX, or satellite tuner.
DISC	Press to select a disc directly of the CD player or VCD player (multi-disc change only).
SEARCH MODE	Press to select the searching mode or unit for search (track, index, etc.) of the DVD player.
10 **■**	Press to stop playback of the VCR, CD player, VCD player, LD player, DVD player, MD deck, DAT deck, tape deck, Blu-ray disc recorder, hard disc recorder, or PSX.
11 **MUTING**	Press to mute the sound.
12 **MASTER VOL +[a)]/–**	Press to adjust the volume level of all speakers at the same time.
13 **TV/VIDEO**	Press to select the input signal (TV input or video input).

Name	Function
14 **AMP MENU**	Press to display the menu of the receiver. Then, use the control buttons to perform menu operations.
15 **AUTO CAL**	Press to activate the Auto Calibration function.
16 **WIDE**	Press ALT (8) and then press WIDE to select the wide picture mode.
17 **TV CH +a)/–**	Press to select preset TV channels.
18 **TV VOL +a)/–**	Press to adjust the TV volume level.
19 **RETURN/ EXIT** ↩	Press to – return to the previous menu. – exit the menu while the menu or on-screen guide of the VCD player, LD player, DVD player, Blu-ray disc recorder, hard disc recorder, PSX, or satellite tuner is displayed on the TV screen.
20 **DISPLAY**	Press to select information displayed on the TV screen of the TV, VCR, VCD player, LD player, DVD player, CD player, MD deck, Blu-ray disc recorder, hard disc recorder, PSX, or satellite tuner.
21 **Control buttons**	After pressing AMP MENU (14), TOP MENU/GUIDE (22), or AV MENU (23), press the control button ↑, ↓, ← or → to select the settings. When you press TOP MENU/ GUIDE or AV MENU, press the control button to enter the selection.
22 **TOP MENU/ GUIDE**	Press to display – DVD title. – menu or on-screen guide of the satellite tuner, Blu-ray disc recorder, hard disc recorder, or PSX on the TV screen. Then, use the control buttons to perform menu operations.

Name	Function
23 **AV MENU**	Press to display the menus of the VCR, DVD player, satellite tuner, Blu-ray disc recorder, hard disc recorder, or PSX on the TV screen. Then, use the control buttons to perform menu operations.
24 ▷a)	Press to start playback of the VCR, CD player, VCD player, LD player, DVD player, MD deck, DAT deck, tape deck, Blu-ray disc recorder, hard disc recorder, or PSX.
25 ❚❚	Press to pause playback or recording of the VCR, CD player, VCD player, LD player, DVD player, MD deck, DAT deck, tape deck, Blu-ray disc recorder, hard disc recorder, or PSX. (Also starts recording with components in recording standby.)
26 ◀◀/▶▶	Press to – search tracks in the forward/ backward direction of the CD player, VCD player, LD player, DVD player, MD deck, Blu-ray disc recorder, hard disc recorder, or PSX. – fastforward/rewind of the VCR, DAT deck, or tape deck.
D. TUNING	Press to enter direct tuning mode.
ANT	Press ALT (8) and then press ANT to select the signal output from the antenna terminal of the VCR or satellite tuner (TV signal or video signal).
CLEAR	Press ALT (8) and then press CLEAR to – clear a mistake when you press the incorrect numeric button. – return to continuous playback, etc. of the CD player, DVD player, Blu-ray disc recorder, PSX, or satellite tuner.

Name		Function
27	**TUNING +/–**	Press to scan a station.
	I◄◄ /►►I	Press to skip tracks of the VCR, CD player, VCD player, LD player, DVD player, MD deck, DAT deck, tape deck, Blu-ray disc recorder, hard disc recorder, or PSX.
	2CH	Press to select 2CH STEREO mode.
	A.F.D.	Press to select A.F.D. mode.
	MOVIE	Press to select sound fields (MOVIE).
	DUAL MONO	Press to select the language you want during digital broadcast.
	AUDIO	Press to change the sound to Multiplex, Bilingual or Multi channel TV sound of the TV, VCR, DVD player, satellite tuner, Blu-ray disc recorder, hard disc recorder, or PSX.
	ANGLE	Press to select the viewing angle or change the angles of the DVD player or Blu-ray disc recorder.
	JUMP/TIME	Press to – toggle between the previous and the current channels of the satellite tuner, TV, or Blu-ray disc recorder. – show the time or display the playing time of a disc, etc. of the CD player, MD deck, VCD player, or DVD player.
	MEMORY	Press to store a station.
	SUBTITLE	Press ALT (8) and then press SUBTITLE to change the subtitles of the DVD player.
	ENTER	Press ALT (8) and then press ENTER to enter the value after selecting a channel, disc or track using the numeric buttons.

Name		Function
27	**Numeric buttons**	Press ALT (8) and then press the numeric buttons to – preset/tune to preset stations. – select track numbers of the CD player, VCD player, LD player, DVD player, MD deck, DAT deck, or tape deck. Press 0/10 to select track number 10. – select channel numbers of the TV, VCR, satellite tuner, Blu-ray disc recorder, hard disc recorder, or PSX.
	>10/11	Press ALT (8) and then press >10/11 to select track numbers over 10 of the VCR, CD player, VCD player, LD player, MD deck, tape deck, Blu-ray disc recorder, hard disc recorder, satellite tuner, TV, or PSX.
28	**TV I/⏻**	Press to turn the TV on or off.
29	**RM SET UP**	Press to set up the remote.

a) The MASTER VOL +, TV VOL +, TV CH +, and ▷ buttons have tactile dots. Use the tactile dots as references when operating the receiver.

Notes

The AUX and 12 buttons on the remote are not available for receiver operation.
Some functions explained in this section may not work depending on the model.
The above explanation is intended to serve as an example only. Therefore, depending on the component, the above operation may not be possible or may operate differently than described.

SECTION 2
TEST MODE

FACTORY PRESET MODE

All preset contents are reset to the default setting.

Procedure:

1. While depressing the SPEAKERS (ON/OFF) and the MOVIE buttons simultaneously, press the power I/⏻ button to turn on the main power.
2. The message "FACTORY" appears and the present contents are reset to the default values. (5 second)

AM CHANNEL STEP 9 kHz/10 kHz SELECTION MODE

Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.

Procedure:

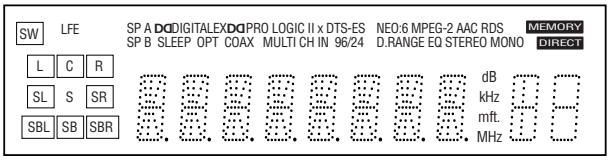
1. Set the FUNCTION to AM. Turn off the main power.
2. While depressing the TUNING MODE button, press the power I/⏻ button to turn on the main power.
3. Either the message "9 k STEP" or "10 kSTEP" appears. Select the desired step.

FLUORESCENT INDICATOR TUBE TEST MODE

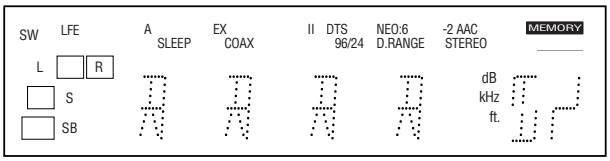
All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.

Procedure:

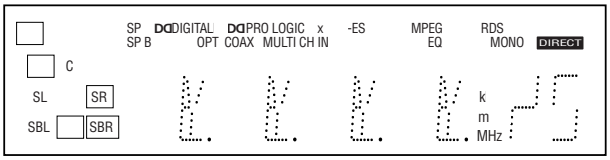
1. While depressing the TUNING MODE and the DISPLAY buttons simultaneously, press the power I/⏻ button to turn on the main power.
2. All segments turn on.



3. Turn the INPUT SELECTOR dial.



4. Turn the INPUT SELECTOR dial once again.



5. Turn the INPUT SELECTOR dial once again. All segments turn off.

6. Every turning of the INPUT SELECTOR dial turns on each segment one after another in the same order.

SOUND FIELD CLEAR MODE

The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

Procedure:

1. While depressing the 2CH button, press the power I/⏻ button to turn on the main power.
2. The message "SF. CLR." appears and initialization is performed. (5 second)

SOFTWARE VERSION DISPLAY MODE

The software version is displayed.

Procedure:

1. While depressing the SPEAKERS (ON/OFF) and the DISPLAY buttons simultaneously, press the power I/⏻ button to turn on the main power.
2. The model name, destination and the software version are displayed. (7 second)

KEY CHECK MODE

Button check

Procedure:

1. While depressing the SPEAKERS (ON/OFF) and the 2CH buttons simultaneously, press the power I/⏻ button to turn on the main power.
   "REST 13" appears.
2. Every pressing of any button other than I/⏻ counts down the buttons. The buttons which are already counted once are not counted again.
3. When all buttons are pressed "REST 00" appears.

CHANGE COMMON MODE

This mode is command mode changed to AV 1 or AV2.

Procedure:

1. While depressing the INPUT MODE button, press the power I/⏻
   button to turn on the main power.
2. Either the message "C.MODE.AV 1" or "C.MODE.AV 2" appears. (3 second)

SHIPMENT MODE

All preset contents are reset to the default setting.

Procedure:

1. While depressing the SPEAKERS (ON/OFF) and the MUSIC buttons simultaneously, press the power I/⏻ button to turn on the main power.
2. "CLEARED" appears and switch off the set.

PROTECTOR

Procedure:

1. While depressing the TUNING MODE and the A.F.D. buttons simultaneously, press the power I/⏻ button to turn on the main power.
2. " PROT. EVER" appears. (3 second)

DECODE AUTO ALL

Procedure:

1. While depressing the TUNING MODE and the MOVIE buttons simultaneously, press the power I/⏻ button to turn on the main power.
2. "DEC. TEST" appears. (10 second)

VACS CONTROL

Procedure:

1. While depressing the TUNING MODE and the MUSIC buttons simultaneously, press the power I/⏻ button to turn on the main power.
2. "VACS OFF" appears. (10 second)

SWAP ALL MODE

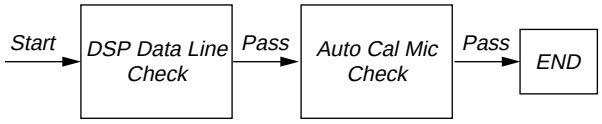
Procedure:

1. While depressing the SPEAKERS (ON/OFF) and the A.F.D. buttons simultaneously, press the power I/⏻ button to turn on the main power.
2. "SWP.ALL" appears. (No change while displayed.)

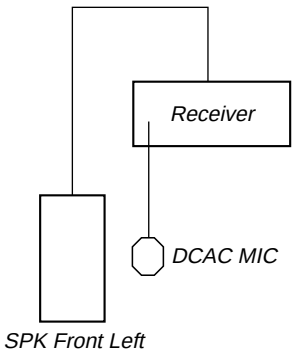
DCAC FACTORY TEST MODE

DCAC Factory Test mode have two stages:

1. DCAC DSP Data Line Checking
2. DCAC AUTO CAL MIC board Checking



Factory Test System Setup



1. When power off :
   Press the three buttons TUNING + + MOVIE + I/⏻ .
   "DCAC□FTM" appears.
   Afterward, press the TUNING MODE to start DCAC factory test mode.

1. DCAC DSP Data Line Checking

After press the TUNING MODE , DCAC Factory test mode will start, below display will show:

"DCAC□□□x" x = 1, 2, 3, 4

If there is error happen, below display will show:

"ERR□SD0x" x = 1 → D1501 or R1530 or C1512 problem
x = 2 → D1502 problem
x = 3 → D1503 problem
x = 4 → D1504 problem

2. DCAC AUTO CAL MIC board Checking

Connect front left speaker of the receiver and AUTO CAL microphone. Turn MASTER VOLUME jog, there will be test tone sound output from front left speaker, and the display will change accordingly.

"AD□-□xxx" xxx = 0 to 255 (depends on loudness of test tone)

SECTION 3
DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Schematic Diagrams.
Note:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

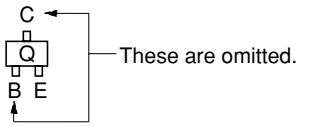
- : B+ Line.
- : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : ANALOG
  : DIGITAL
  : VIDEO
- Abbreviation
  AUS : Australian model.
  E51 : Chilean and Peruvian models.
  MX : Mexican model.
  SP : Singapore model.
  SP6 : Singapore and Malaysia models.

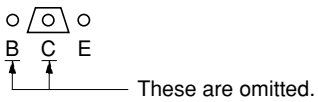
For Printed Wiring Boards.
Note:

- : parts extracted from the component side.
- ○ : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.

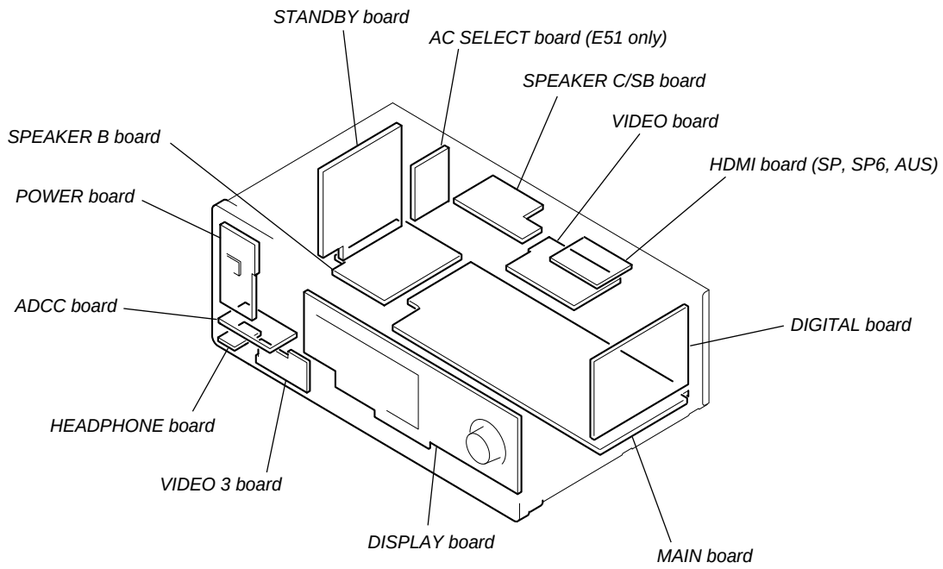
Caution:	
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.

- Indication of transistor.





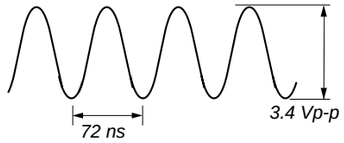
- **Circuit Boards Location**



- **Waveforms**

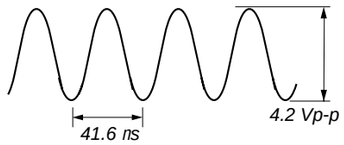
– DIGITAL Board –

① IC1501 ⑨ (MCLK1)



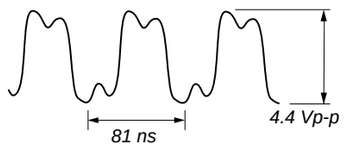
1 V/DIV, 40 ns/DIV

② IC1101 ㊸ (X1)



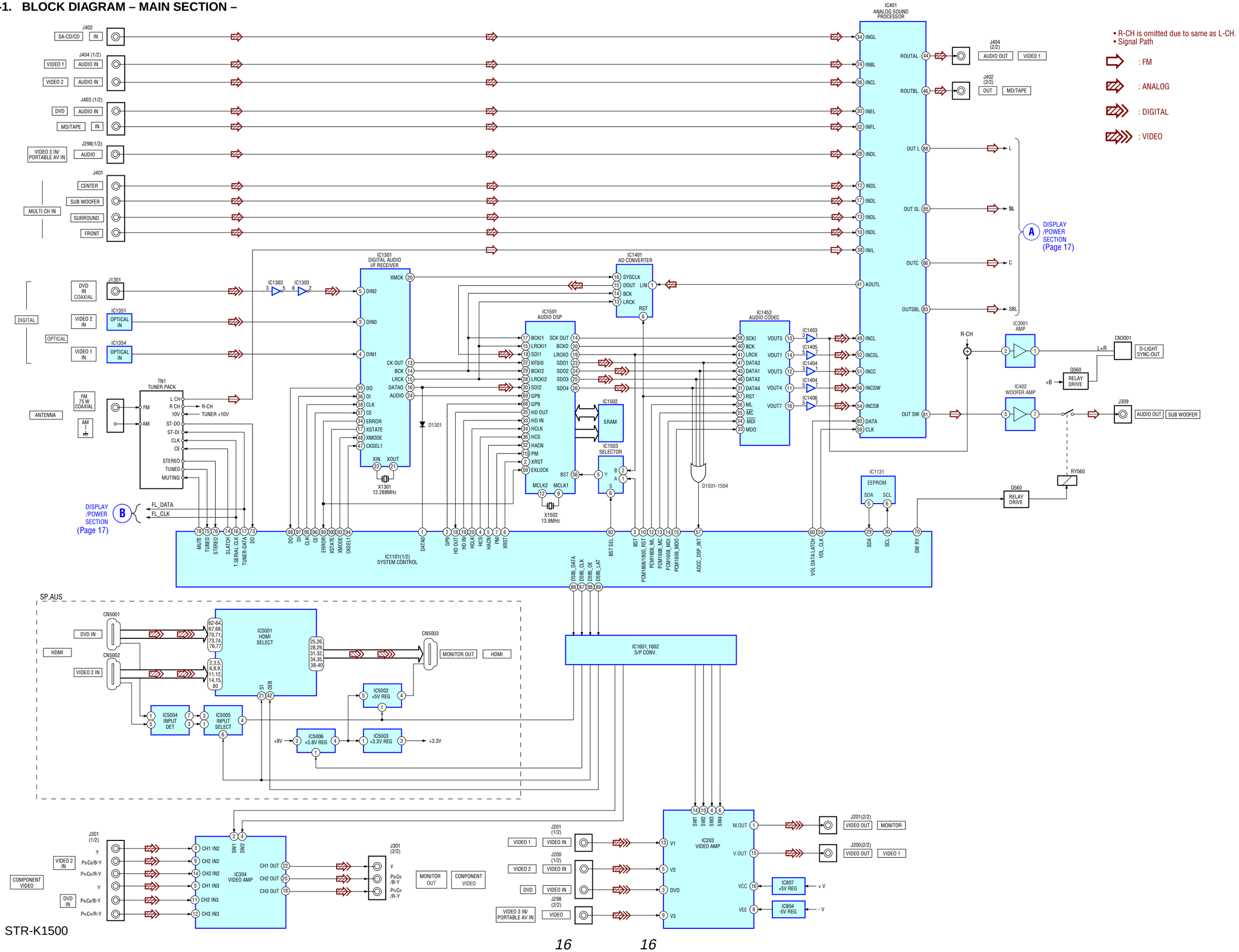
1 V/DIV, 20 ns/DIV

③ IC1301 ㉒ (XIN)

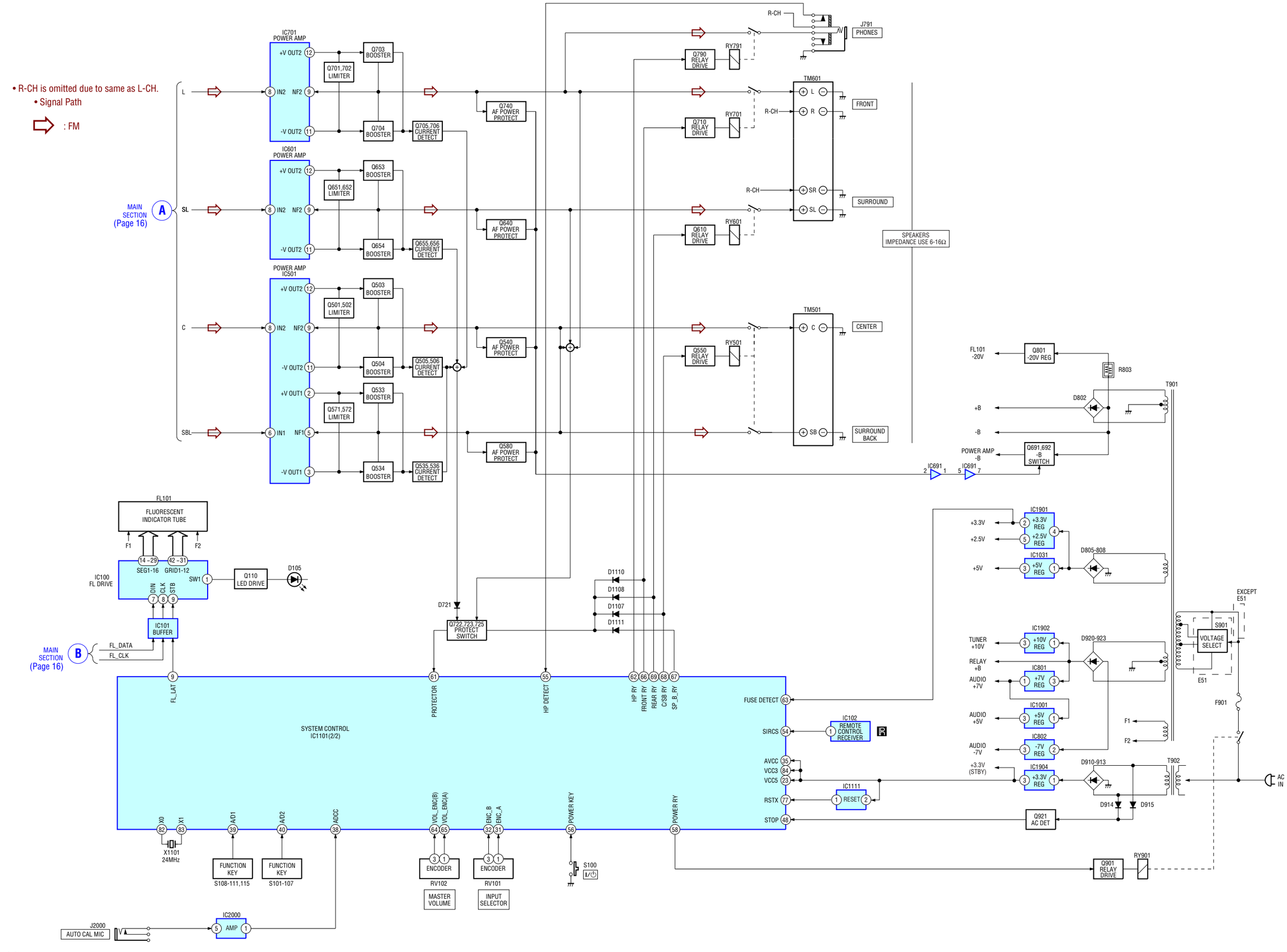


1 V/DIV, 40 ns/DIV

3-1. BLOCK DIAGRAM – MAIN SECTION –



3-2. BLOCK DIAGRAM – DISPLAY/POWER SECTION –

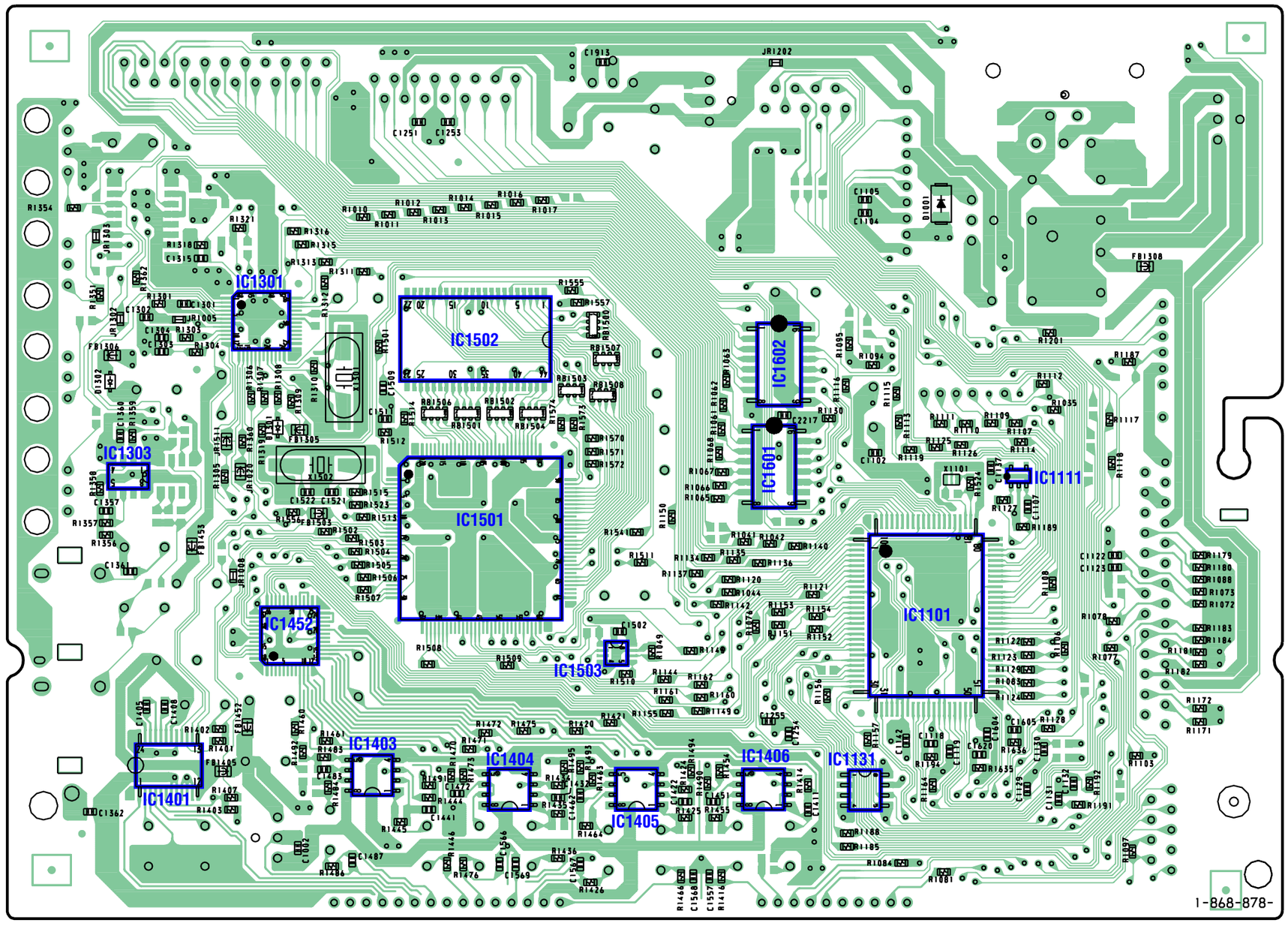


3-3. PRINTED WIRING BOARD – DIGITAL BOARD (SIDE A) –

• See page 15 for Circuit Boards Location.

:Uses unleaded solder.

【DIGITAL BOARD】(SIDE A)



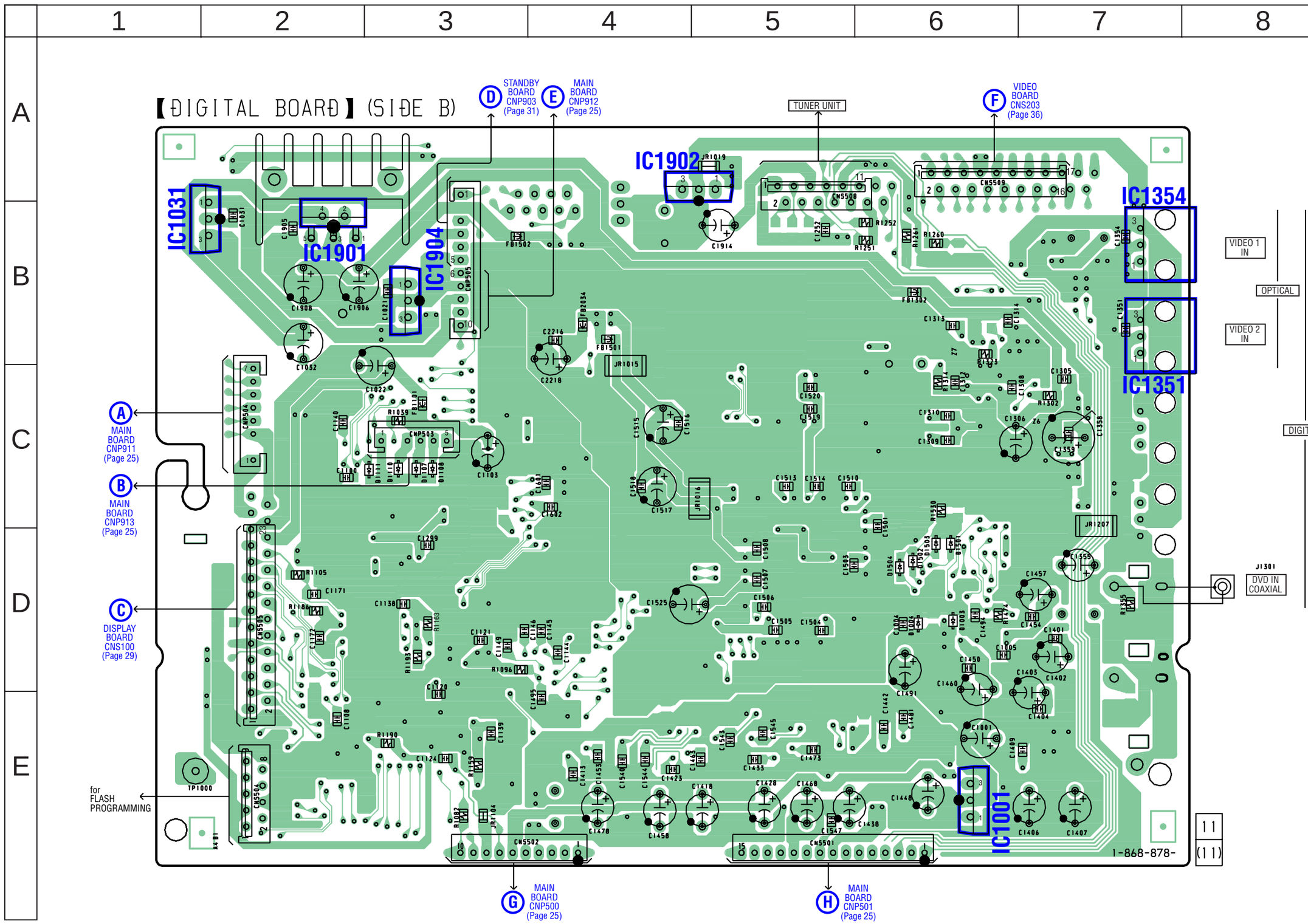
- **Semiconductor Location**

Ref. No.	Location
D1001	B-6
D1301	C-2
D1302	C-1
D1501	D-6
D1502	D-6
IC1101	D-5
IC1111	C-6
IC1131	E-5
IC1301	B-2
IC1303	C-2
IC1401	E-2
IC1403	E-3
IC1404	E-3
IC1405	E-4
IC1406	E-5
IC1452	D-2
IC1501	D-3
IC1502	C-3
IC1503	D-4

3-4. PRINTED WIRING BOARD – DIGITAL BOARD (SIDE B) –

• See page 15 for Circuit Boards Location.

:Uses unleaded solder.

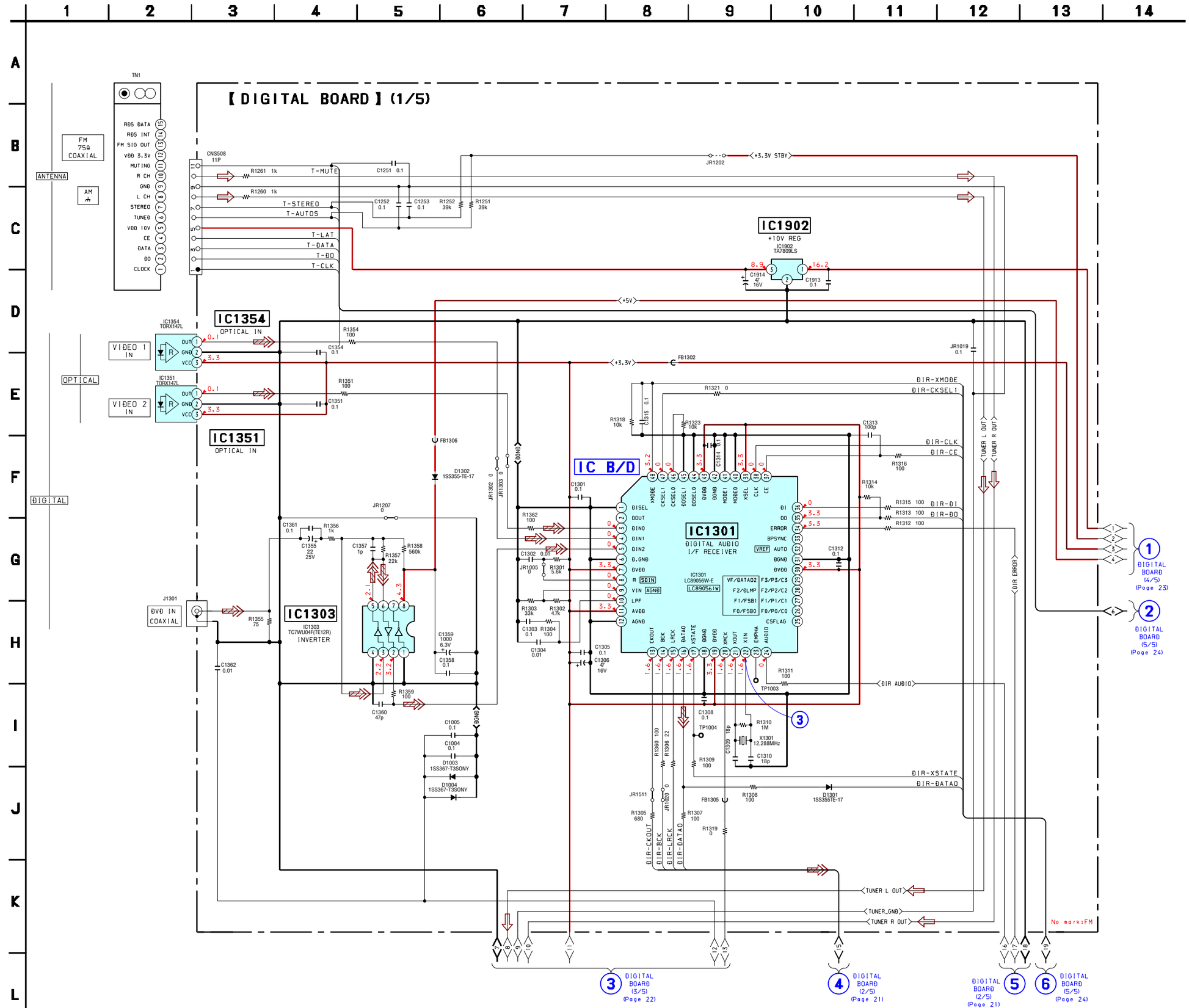


- **Semiconductor Location**

Ref. No.	Location
D1003	D-6
D1004	D-6
D1107	C-3
D1108	C-3
D1110	C-3
D1111	C-3
D1503	D-6
D1504	D-6
IC1001	E-6
IC1031	B-1
IC1351	C-7
IC1354	B-7
IC1601	C-5
IC1602	C-5
IC1901	B-2
IC1902	A-4
IC1904	B-3

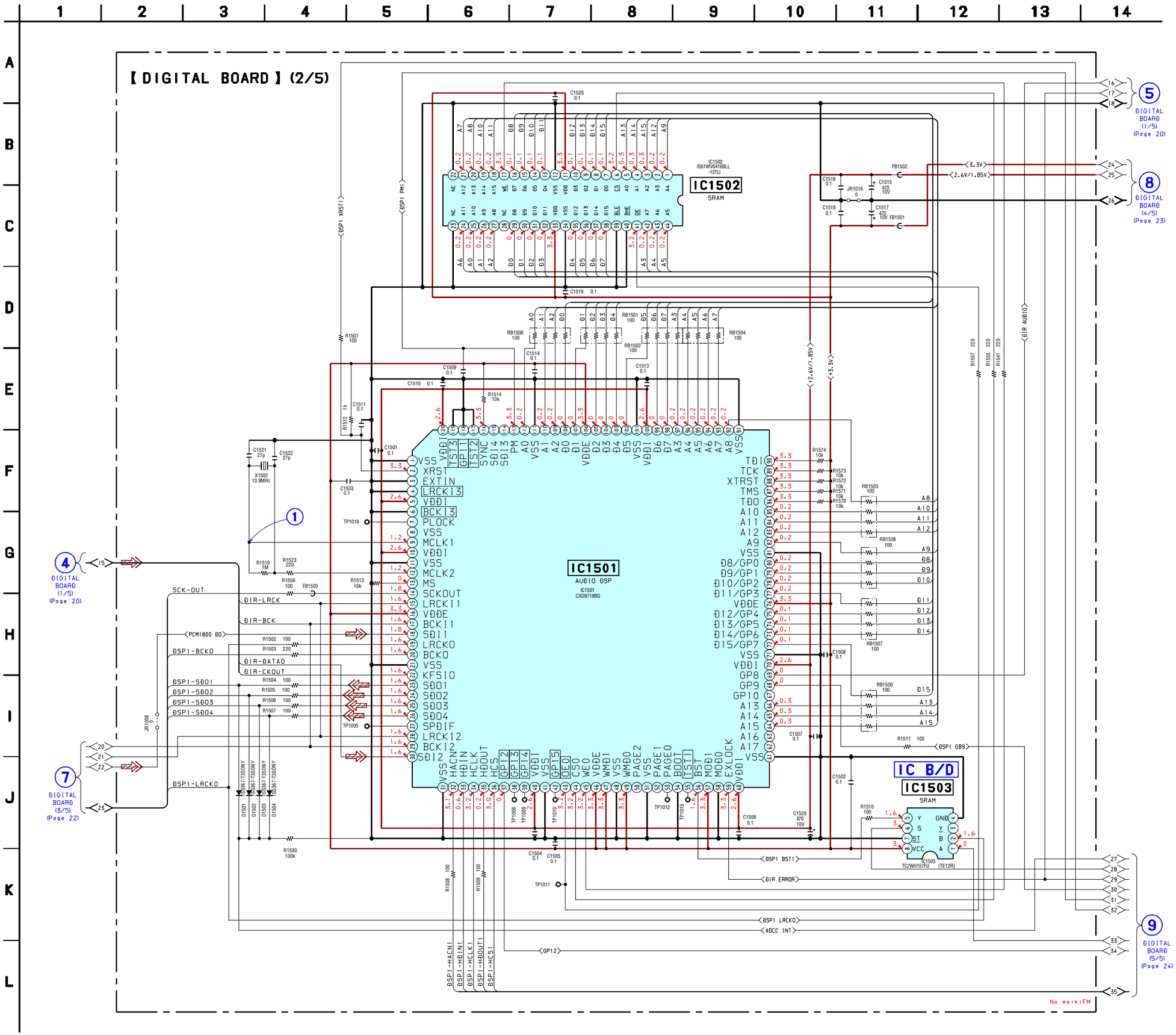
3-5. SCHEMATIC DIAGRAM – DIGITAL BOARD (1/5) –

• See page 15 for Waveform. • See page 40 for IC Block Diagram.

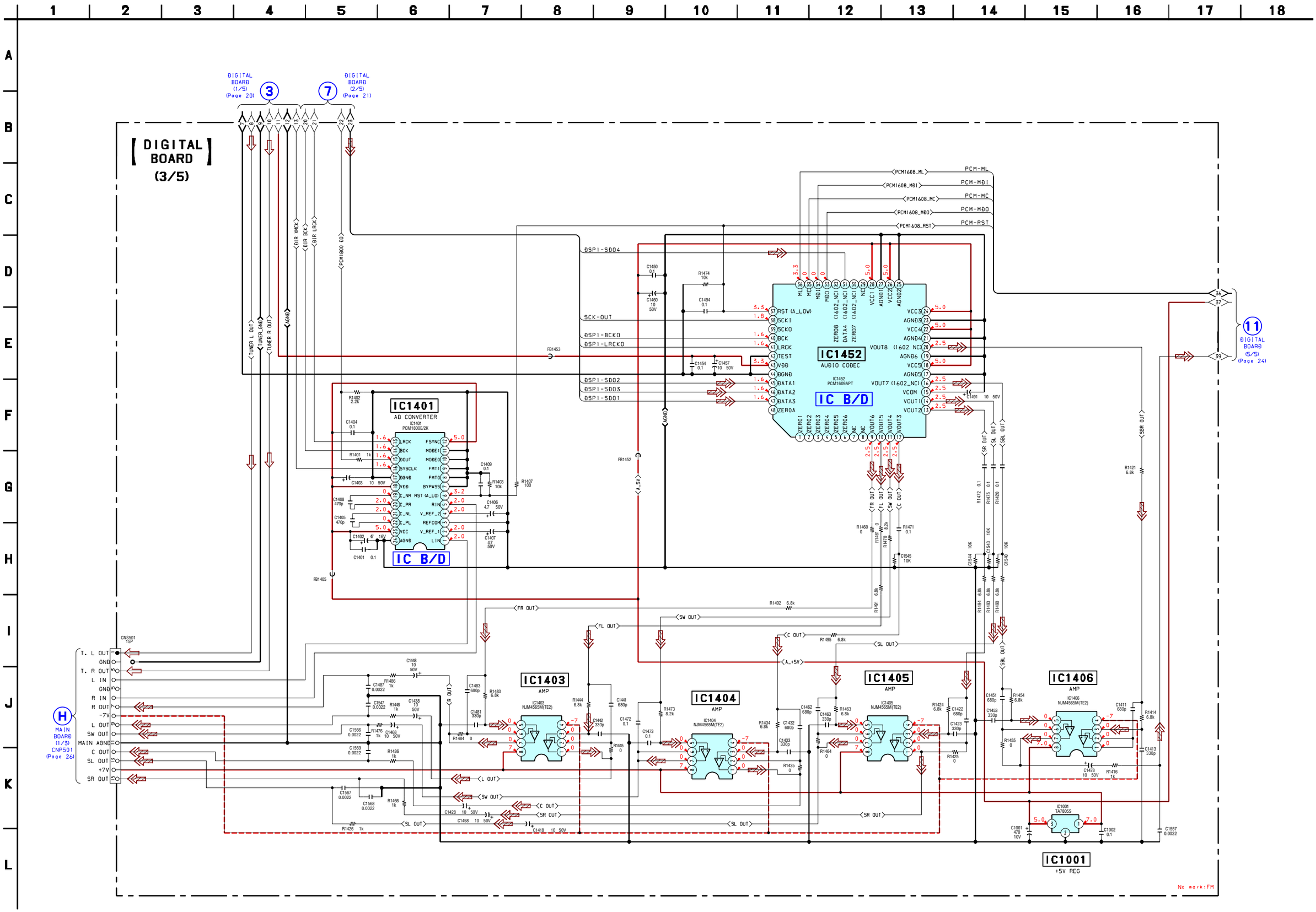


3-6. SCHEMATIC DIAGRAM – DIGITAL BOARD (2/5) –

• See page 15 for Waveform. • See page 40 for IC Block Diagram.

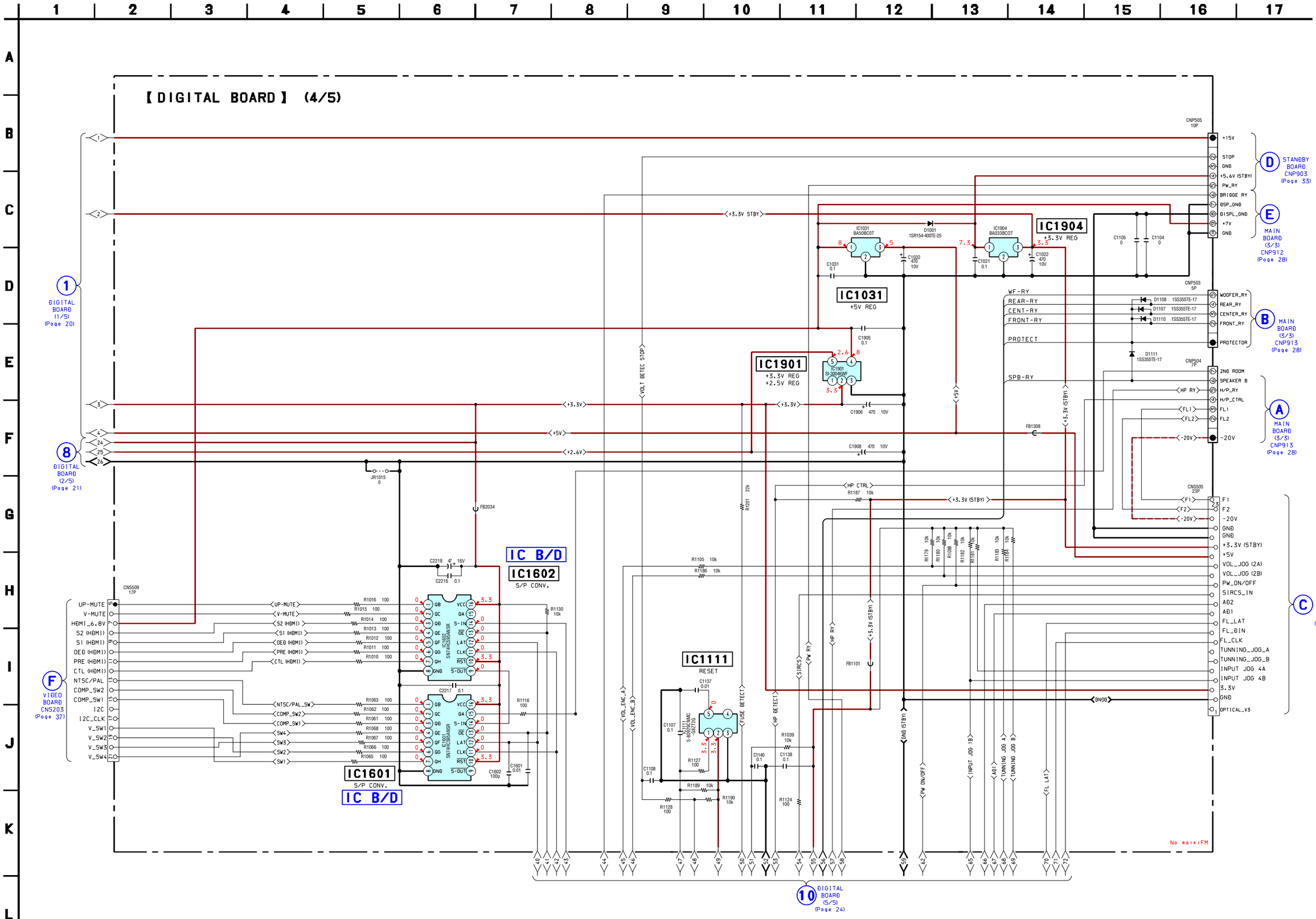


3-7. SCHEMATIC DIAGRAM – DIGITAL BOARD (3/5) – • See page 40, 41 for IC Block Diagrams.



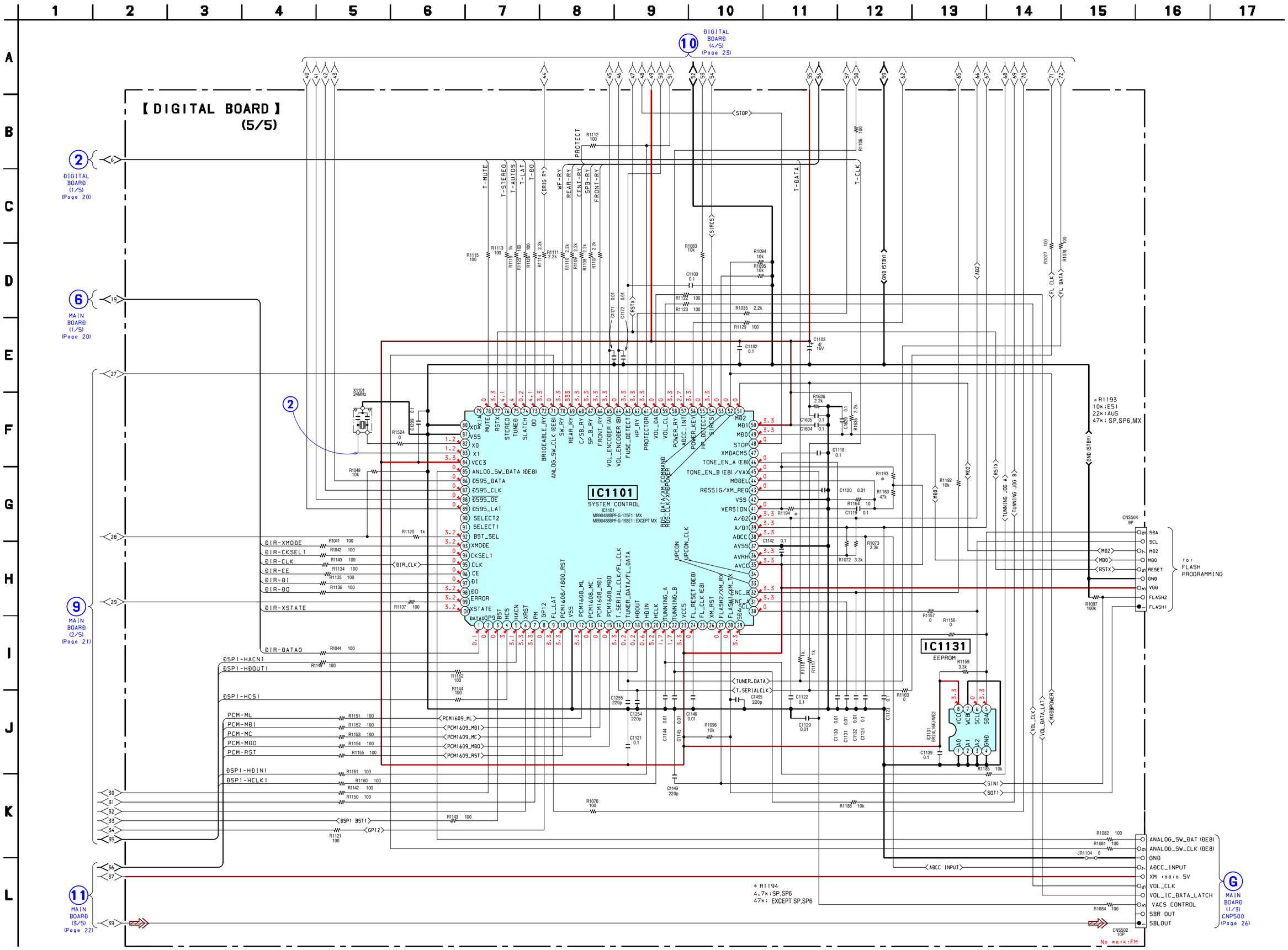
3-8. SCHEMATIC DIAGRAM – DIGITAL BOARD (4/5) –

• See page 40 for IC Block Diagrams.



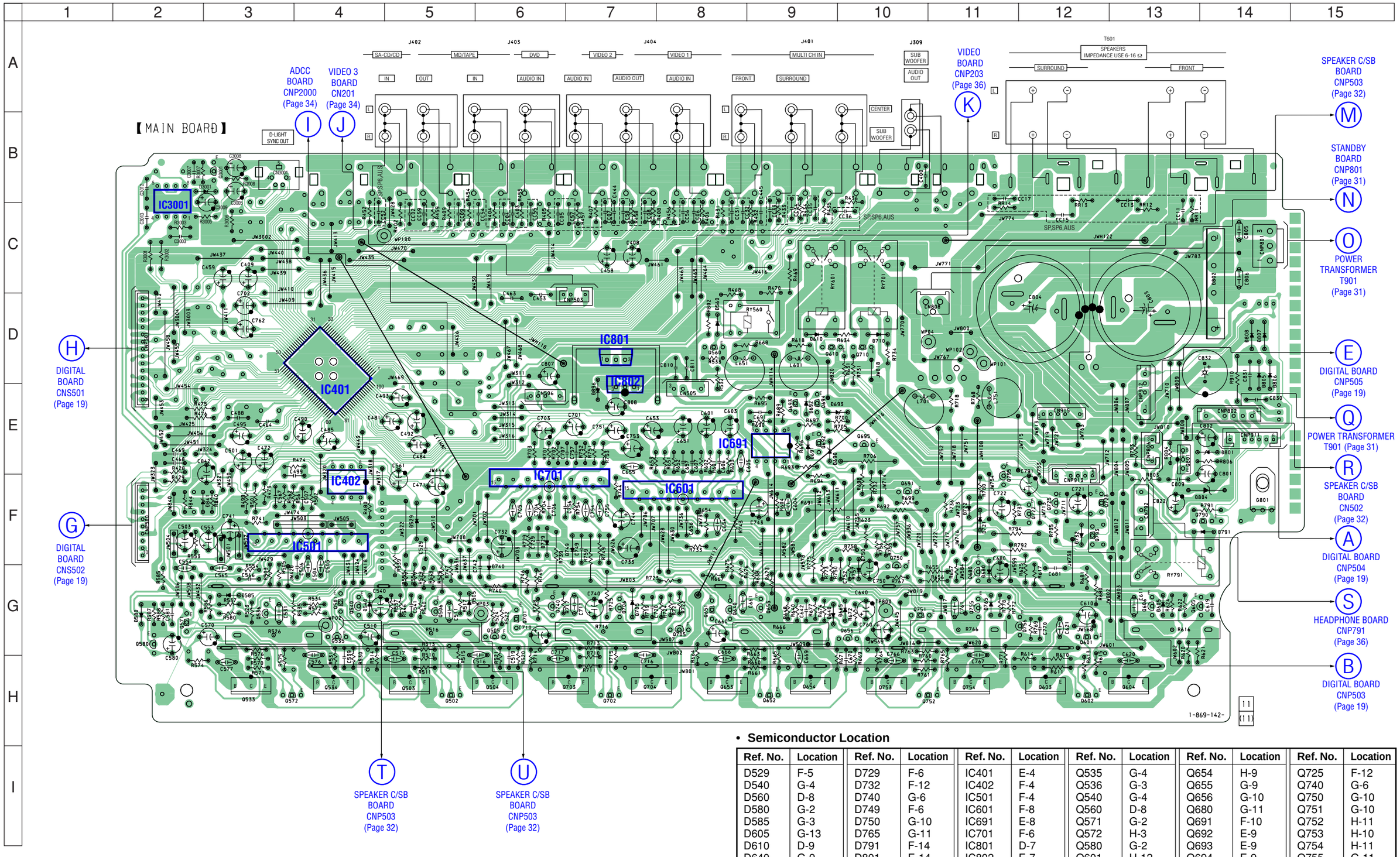
3-9. SCHEMATIC DIAGRAM – DIGITAL BOARD (5/5) –

• See page 15 for Waveform. • See page 44 for IC Pin Function Description.



3-10. PRINTED WIRING BOARD – MAIN BOARD –

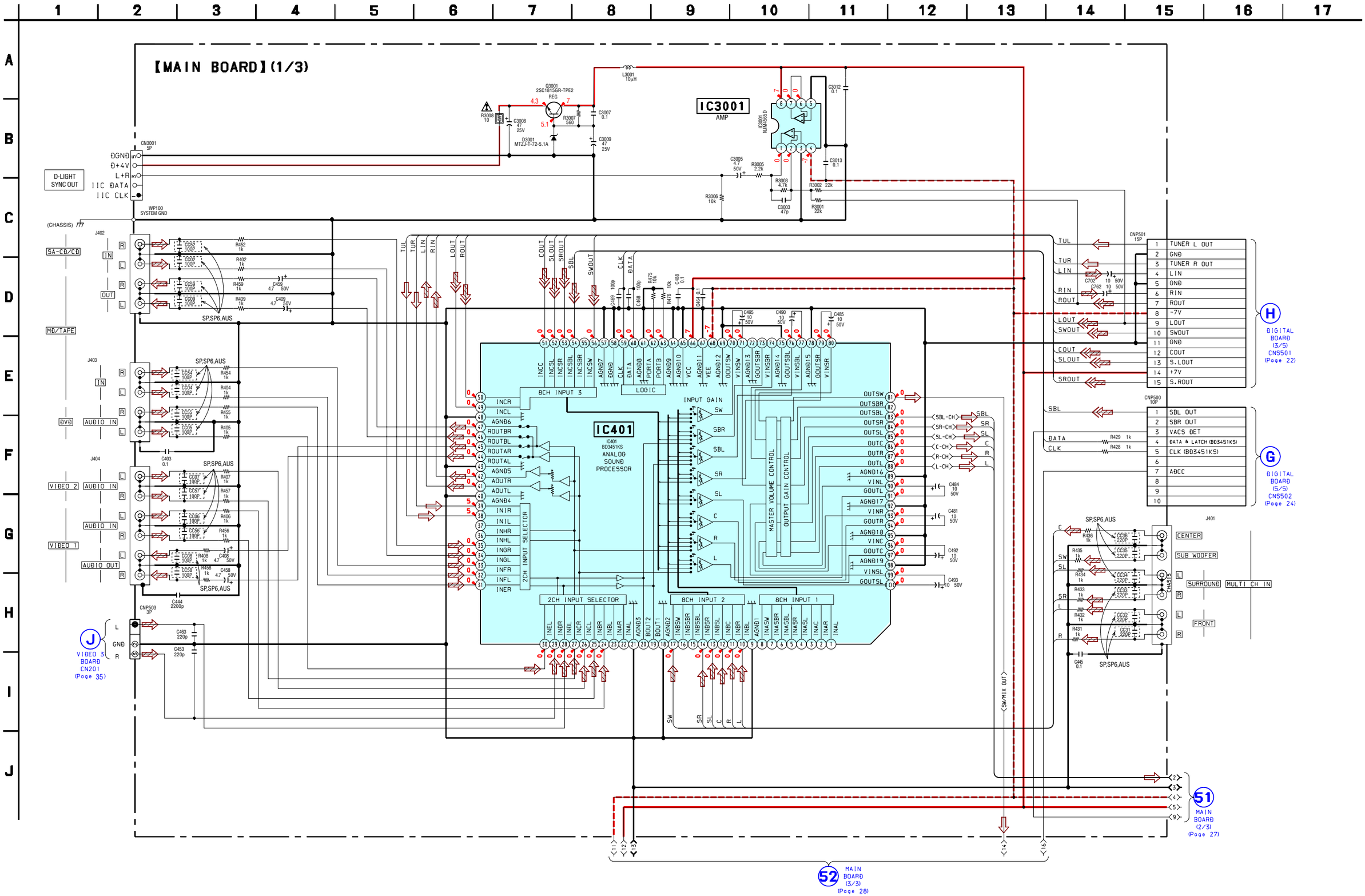
• See page 15 for Circuit Boards Location. :Uses unleaded solder.



• **Semiconductor Location**

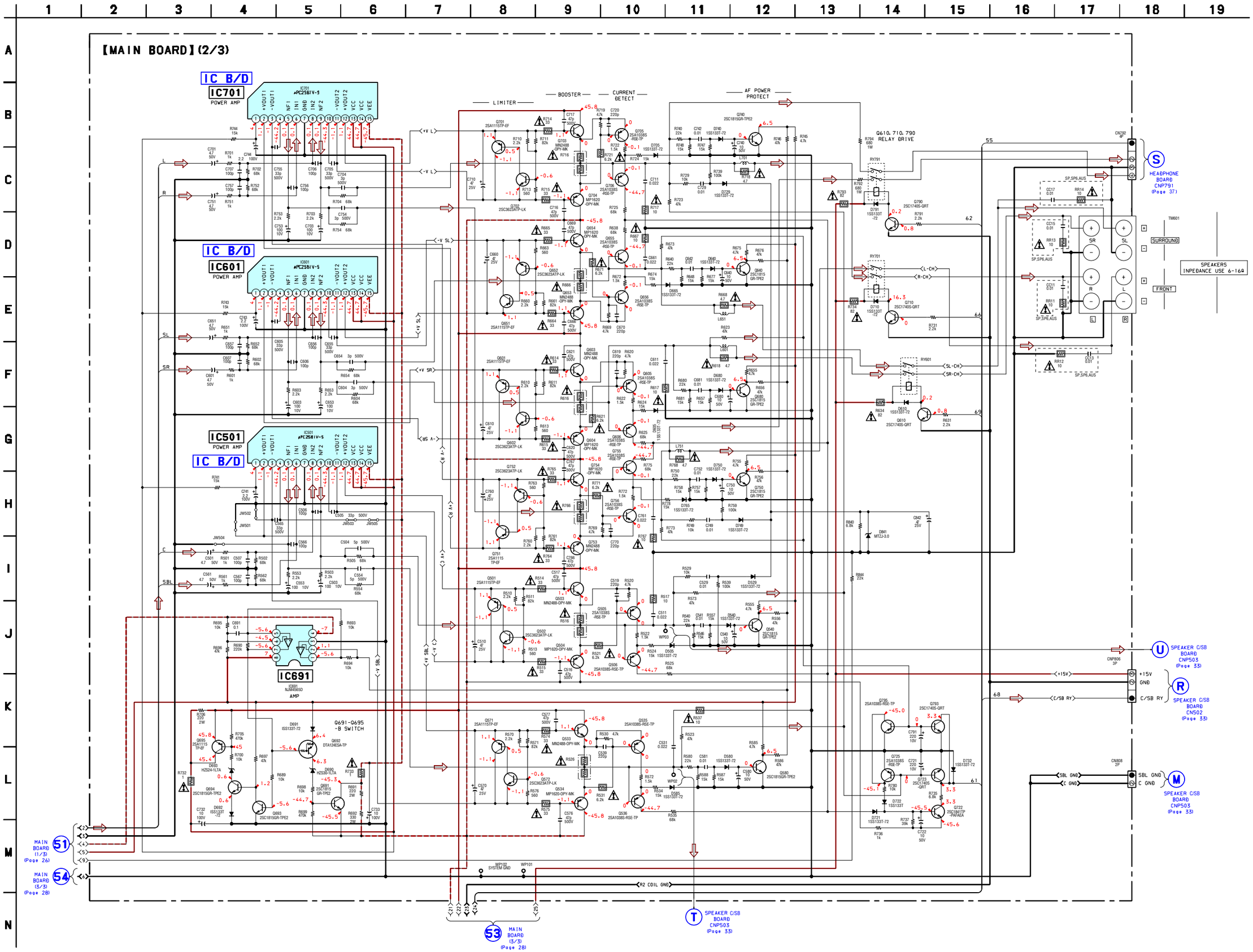
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D529	F-5	D729	F-6	IC401	E-4	Q535	G-4	Q654	H-9	Q725	F-12
D540	G-4	D732	F-12	IC402	F-4	Q536	G-3	Q655	G-9	Q740	G-6
D560	D-8	D740	G-6	IC501	F-4	Q540	G-4	Q656	G-10	Q750	G-10
D580	G-2	D749	F-6	IC601	F-8	Q560	D-8	Q680	G-11	Q751	G-10
D585	G-3	D750	G-10	IC691	E-8	Q571	G-2	Q691	F-10	Q752	H-11
D605	G-13	D765	G-11	IC701	F-6	Q572	H-3	Q692	E-9	Q753	H-10
D610	D-9	D791	F-14	IC801	D-7	Q580	G-2	Q693	E-9	Q754	H-11
D640	G-9	D801	E-14	IC802	E-7	Q601	H-12	Q694	E-9	Q755	G-11
D665	G-10	D802	D-14	IC3001	B-2	Q602	H-12	Q695	E-10	Q756	G-12
D680	G-11	D804	F-13			Q603	H-12	Q701	G-6	Q790	F-14
D690	E-9	D805	E-14	Q501	G-4	Q604	H-13	Q702	H-7	Q793	F-12
D691	E-9	D806	E-14	Q502	H-5	Q605	G-13	Q703	H-6	Q795	F-11
D692	E-9	D807	D-14	Q503	H-5	Q606	G-13	Q704	H-7	Q801	F-13
D693	E-9	D808	D-14	Q504	H-6	Q610	D-9	Q705	G-8	Q3001	B-3
D705	G-7	D841	F-2	Q505	G-6	Q640	G-8	Q706	G-7		
D710	D-10	D896	E-7	Q506	G-5	Q651	G-8	Q710	D-10		
D721	F-11	D3001	B-3	Q533	H-3	Q652	H-9	Q722	F-12		
D722	F-11			Q534	H-4	Q653	H-8	Q723	F-12		

3-11. SCHEMATIC DIAGRAM – MAIN BOARD (1/3) –

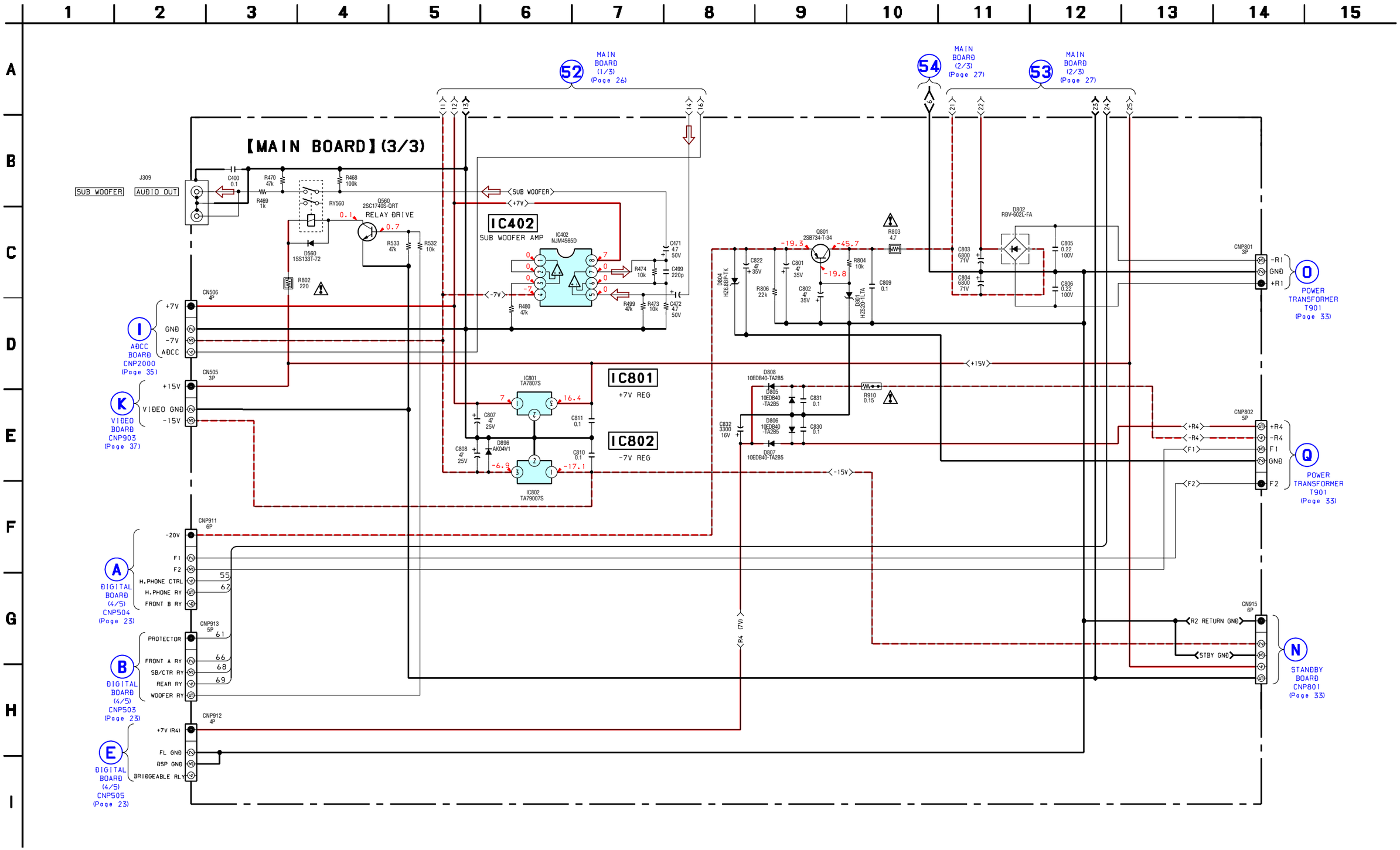


3-12. SCHEMATIC DIAGRAM – MAIN BOARD (2/3) –

• See page 41 for IC Block Diagrams.

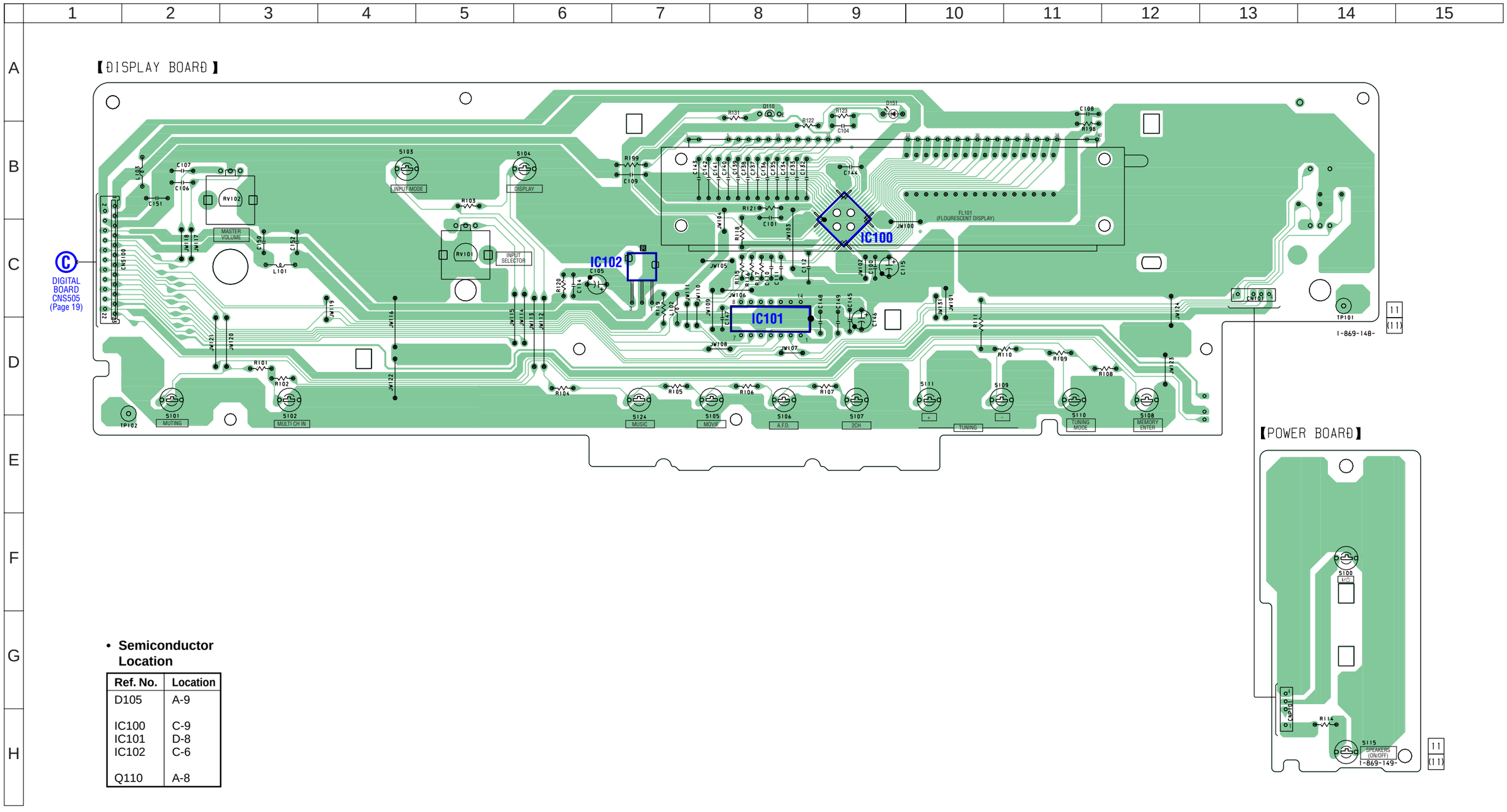


3-13. SCHEMATIC DIAGRAM – MAIN BOARD (3/3) –



3-14. PRINTED WIRING BOARDS – DISPLAY BOARD, POWER BOARD –

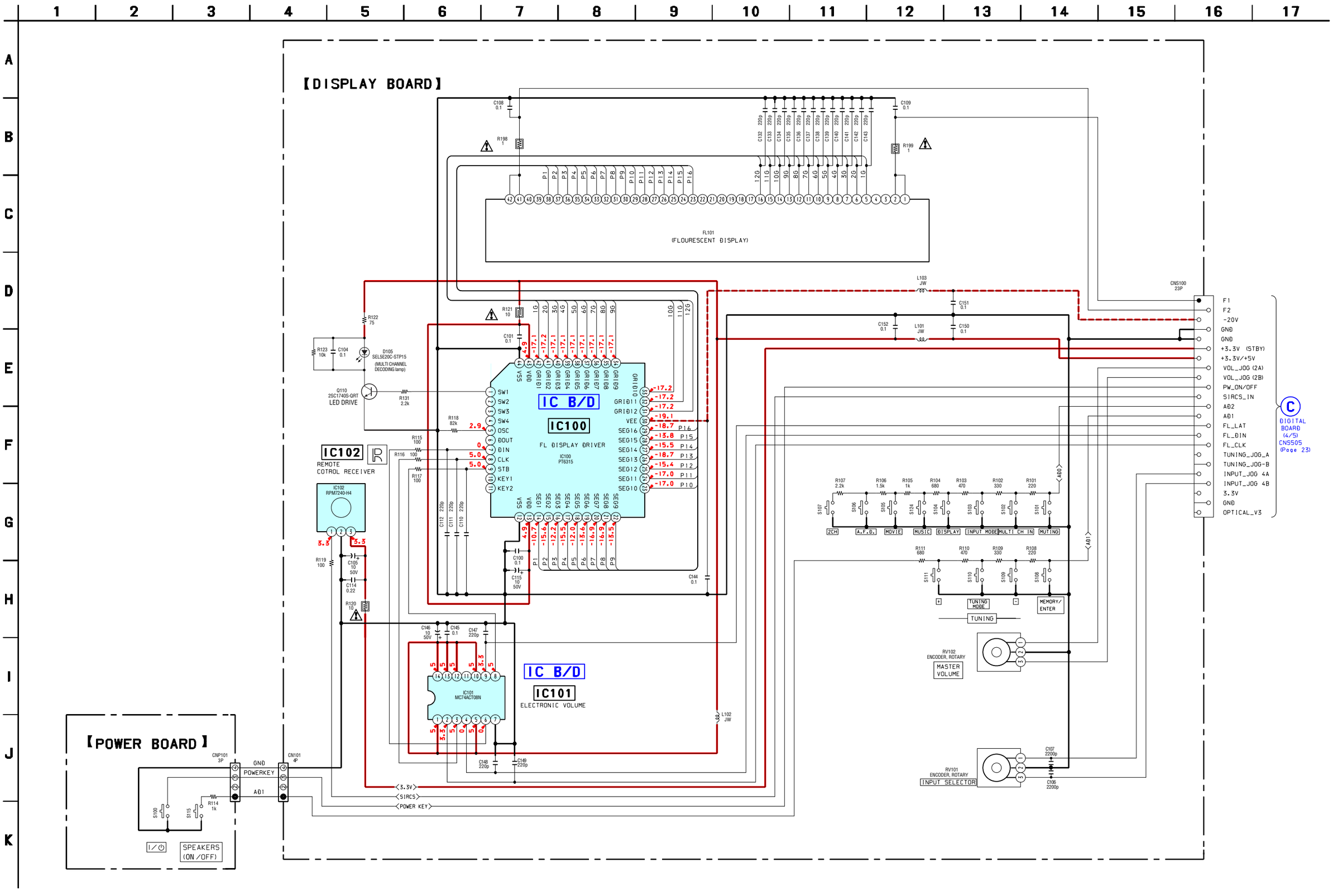
• See page 15 for Circuit Boards Location. :Uses unleaded solder.



• **Semiconductor Location**

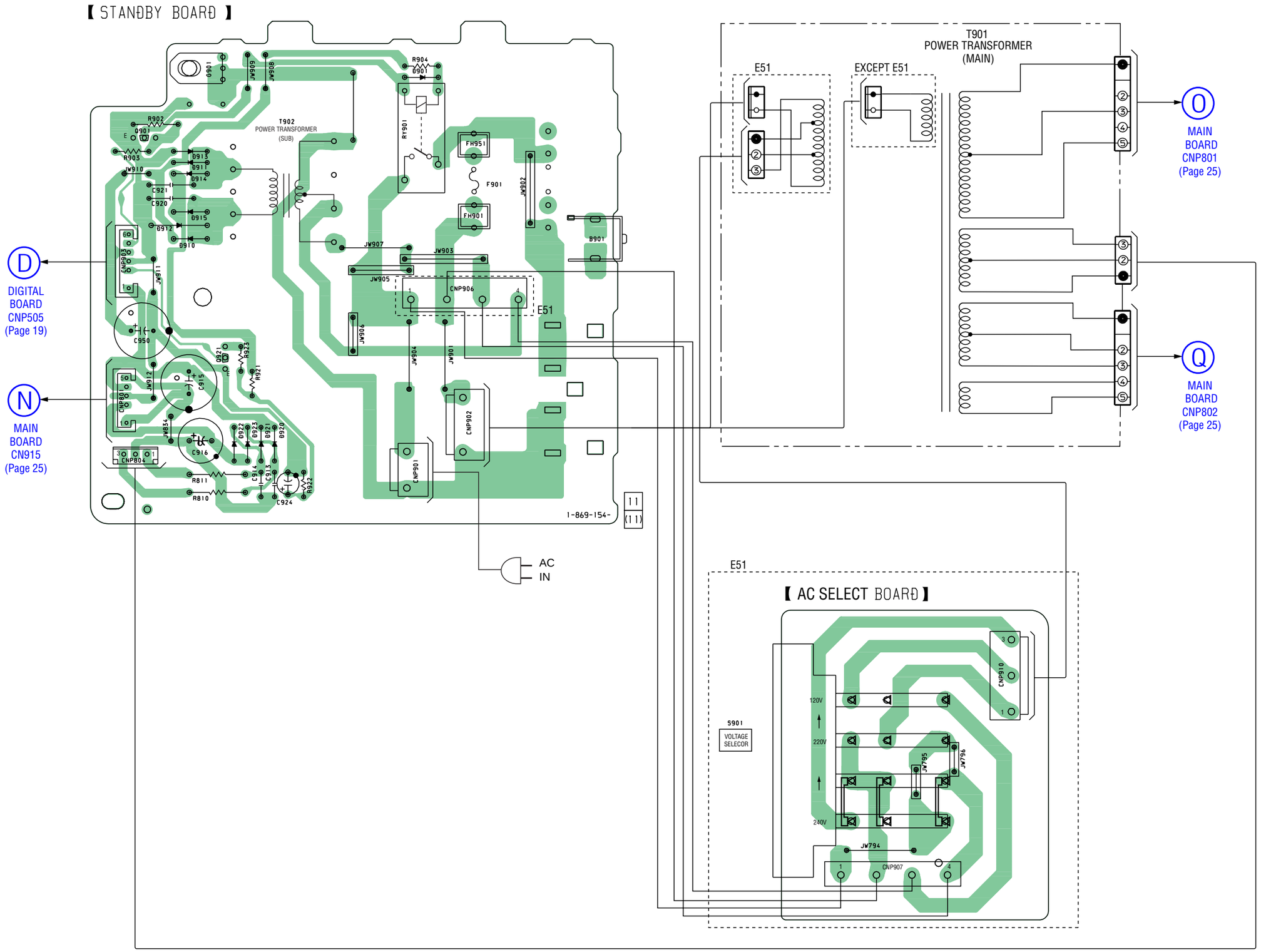
Ref. No.	Location
D105	A-9
IC100	C-9
IC101	D-8
IC102	C-6
Q110	A-8

3-15. SCHEMATIC DIAGRAM – DISPLAY BOARD, POWER BOARD – • See page 41, 42 for IC Block Diagrams.



3-16. PRINTED WIRING BOARDS – STANDBY BOARD, AC SELECT BOARD – • See page 15 for Circuit Boards Location. :Uses unleaded solder.

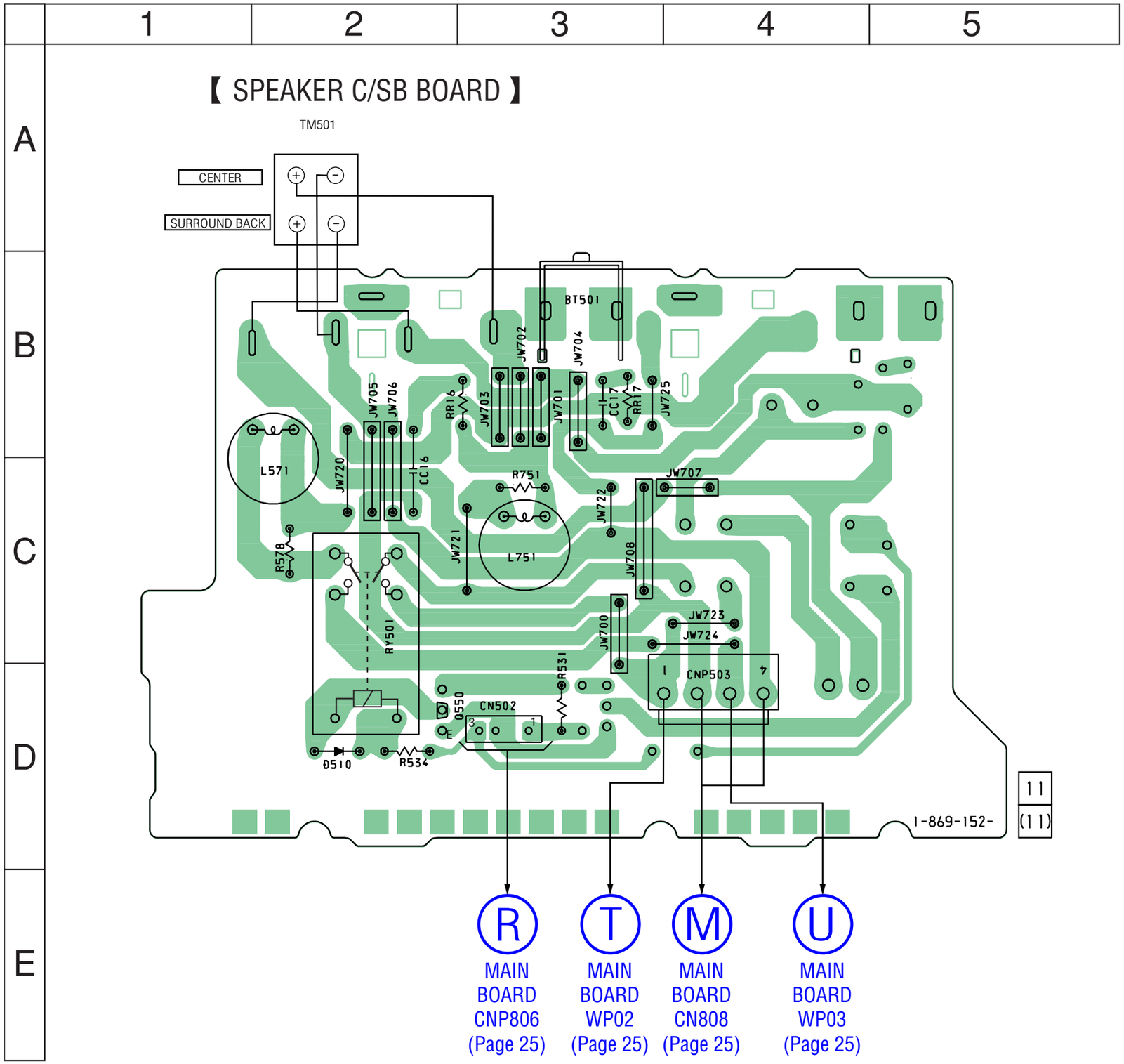
【 STANDBY BOARD 】



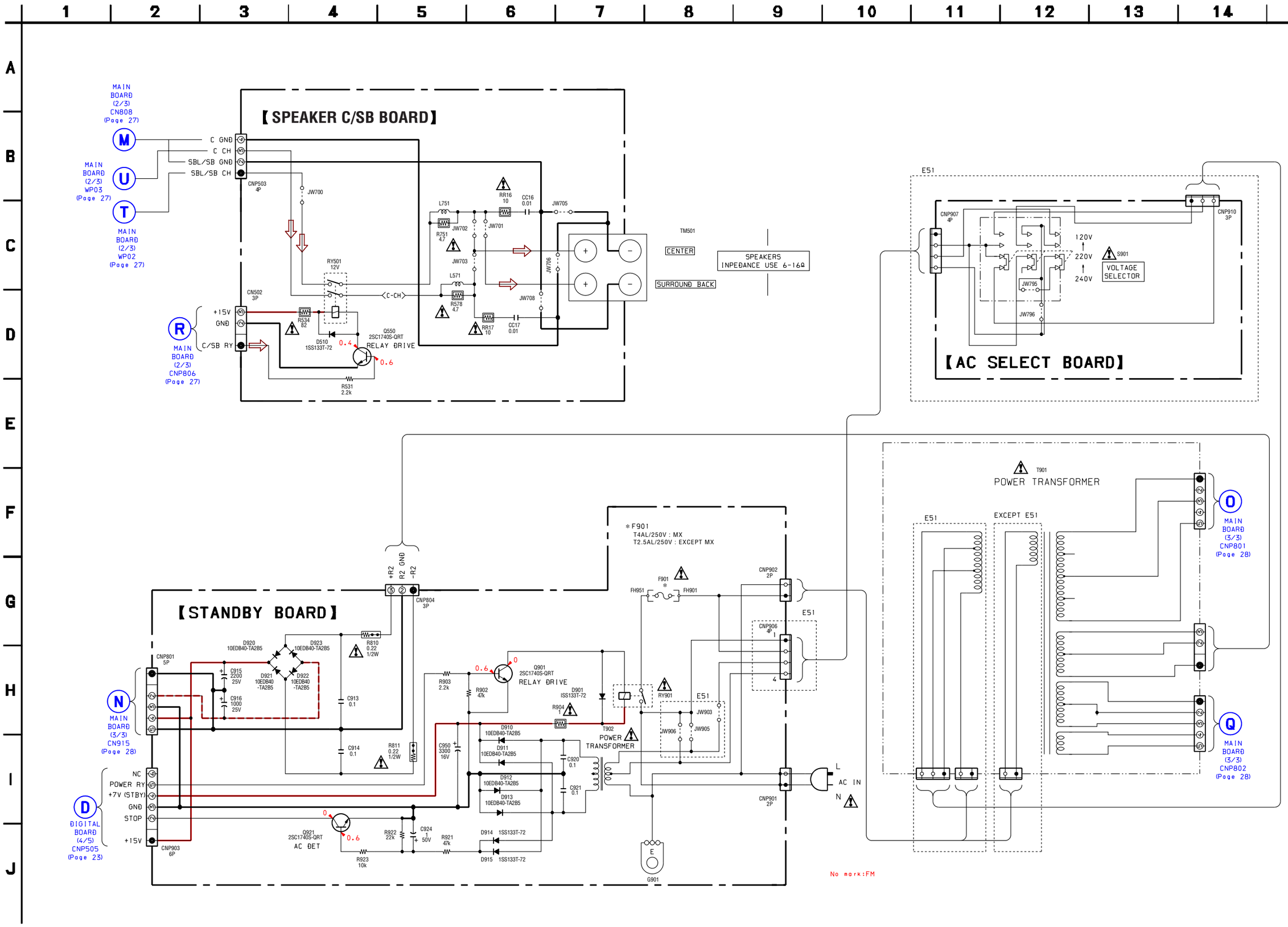
- **Semiconductor Location**

Ref. No.	Location
D901	A-5
D910	C-3
D911	B-3
D912	C-2
D913	B-3
D914	B-3
D915	C-3
D920	E-3
D921	E-3
D922	E-3
D923	E-3
Q901	B-2
Q921	D-3

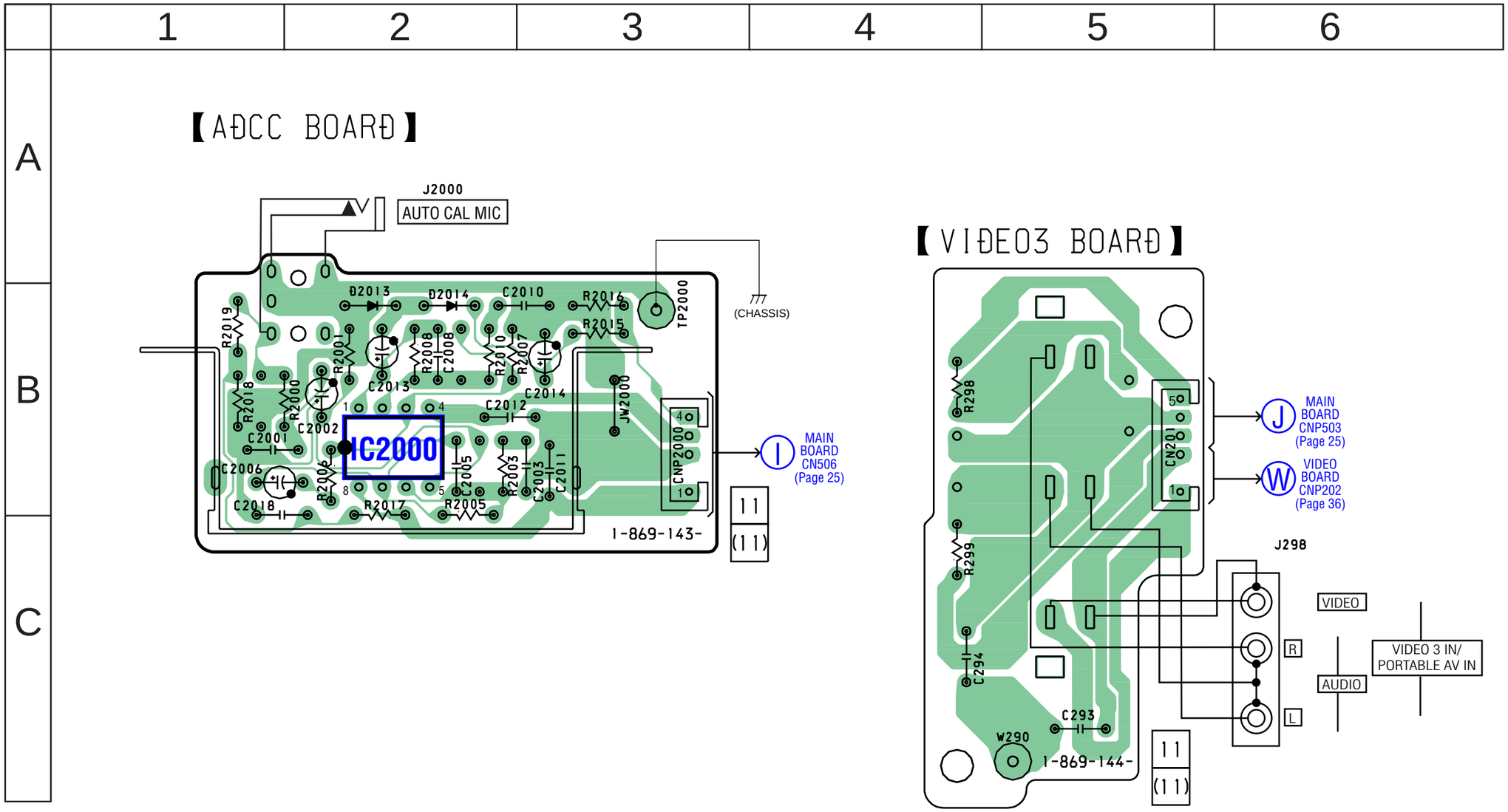
3-17. PRINTED WIRING BOARD – SPEAKER C/SB BOARD – • See page 15 for Circuit Boards Location. :Uses unleaded solder.



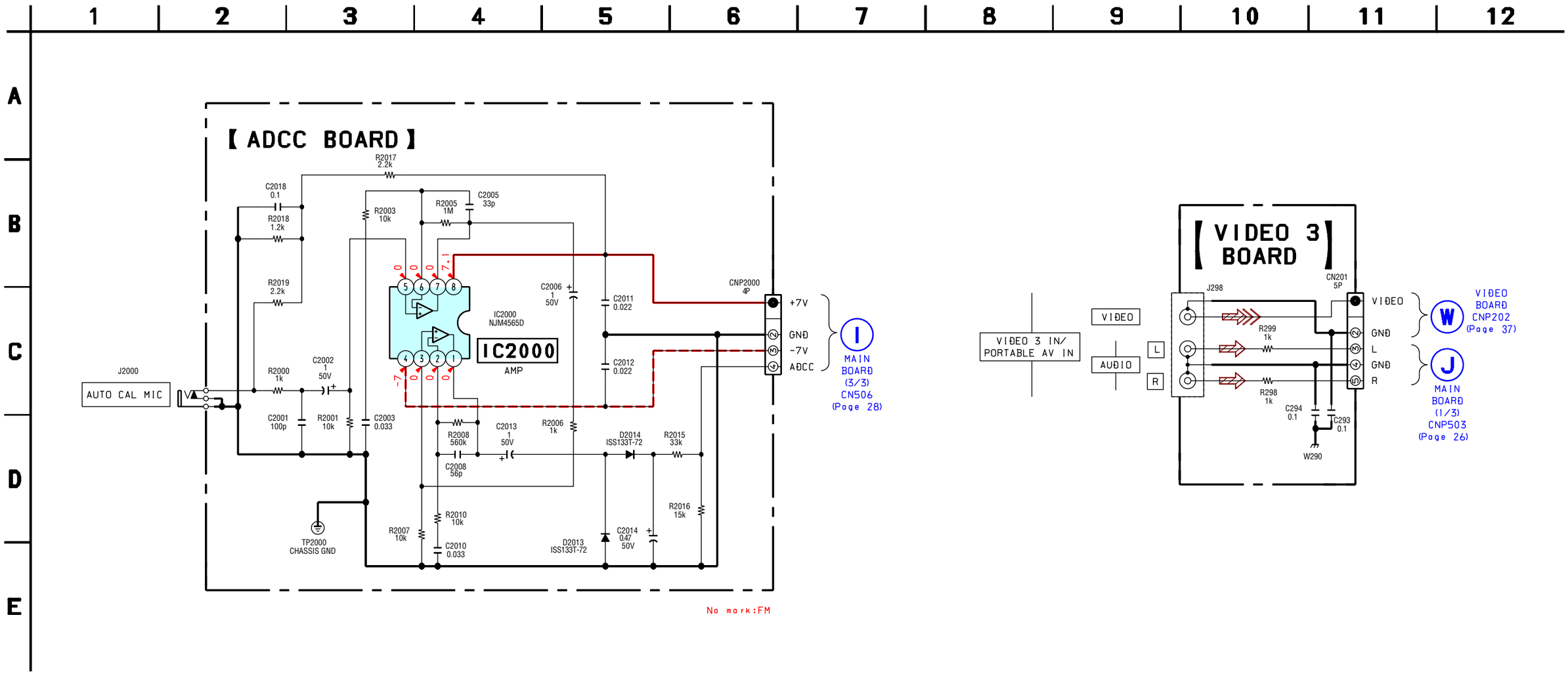
3-18. SCHEMATIC DIAGRAM – SPEAKER C/SB BOARD, STANDBY BOARD, AC SELECT BOARD –



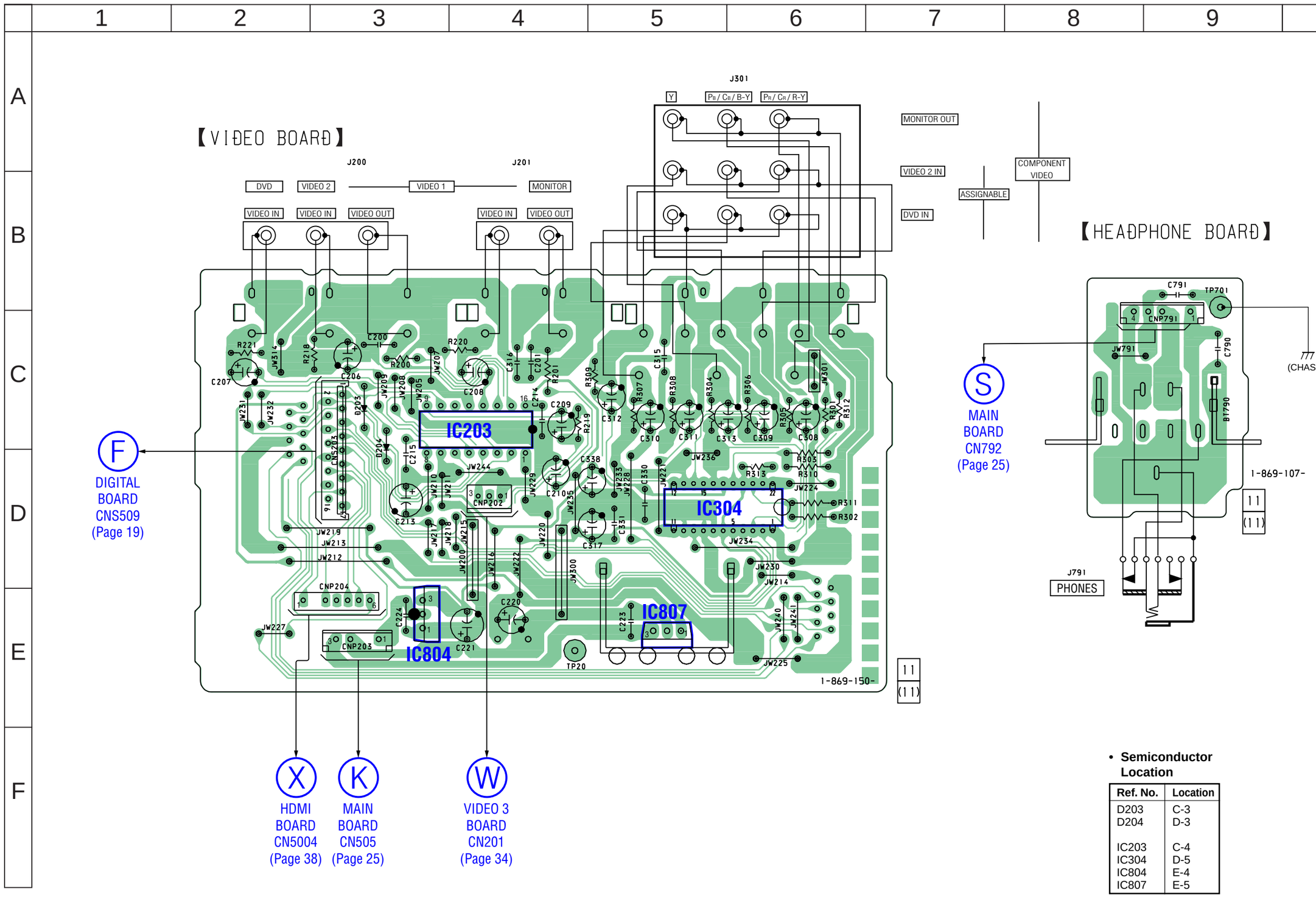
3-19. PRINTED WIRING BOARDS – ADCC BOARD, VIDEO 3 BOARD – • See page 15 for Circuit Boards Location. :Uses unleaded solder.



3-20. SCHEMATIC DIAGRAM – ADCC BOARD, VIDEO 3 BOARD –



3-21. PRINTED WIRING BOARDS – VIDEO BOARD, HEADPHONE BOARD – • See page 15 for Circuit Boards Location. :Uses unleaded solder.

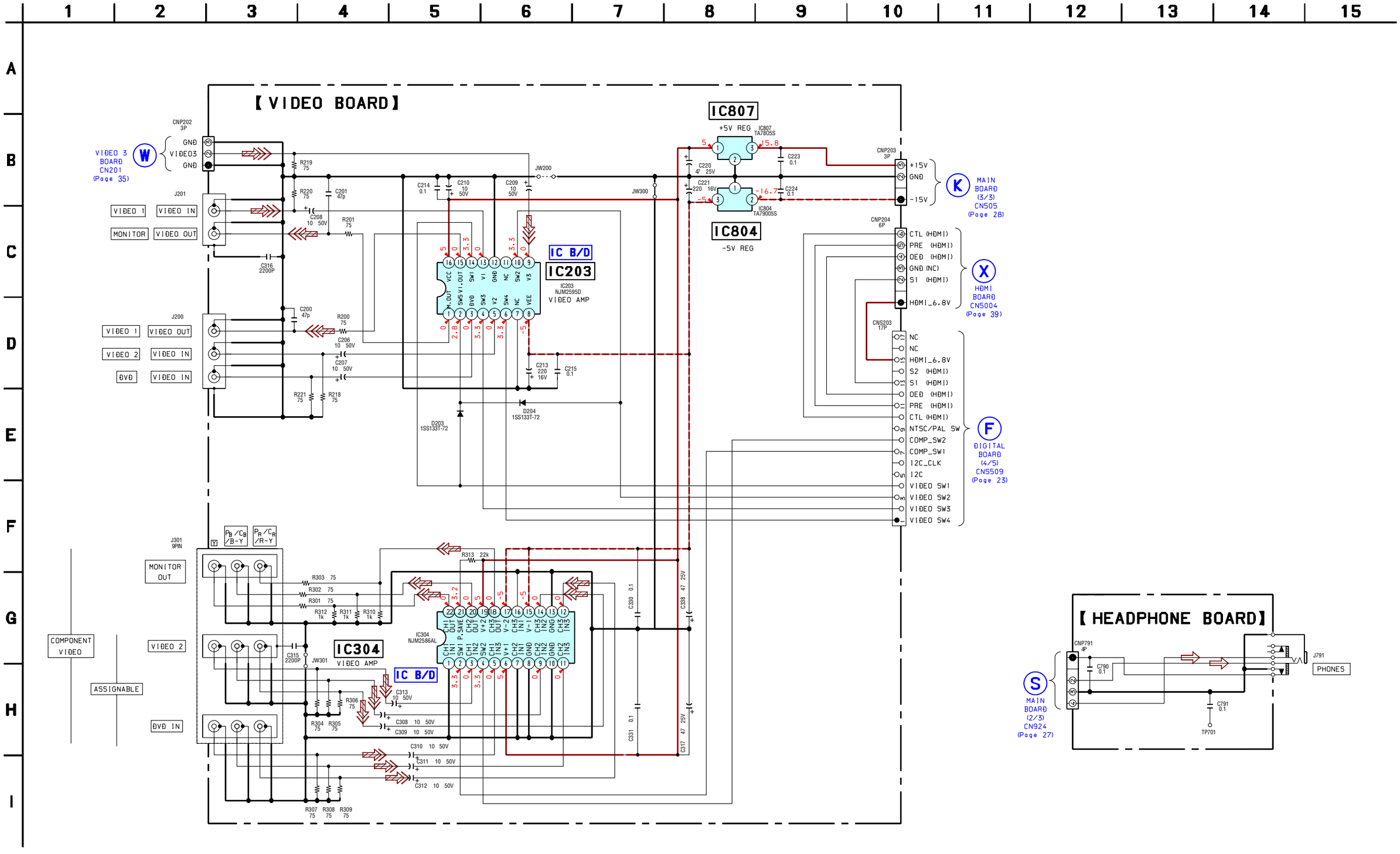


- **Semiconductor Location**

Ref. No.	Location
D203	C-3
D204	D-3
IC203	C-4
IC304	D-5
IC804	E-4
IC807	E-5

3-22. SCHEMATIC DIAGRAM – VIDEO BOARD, HEADPHONE BOARD –

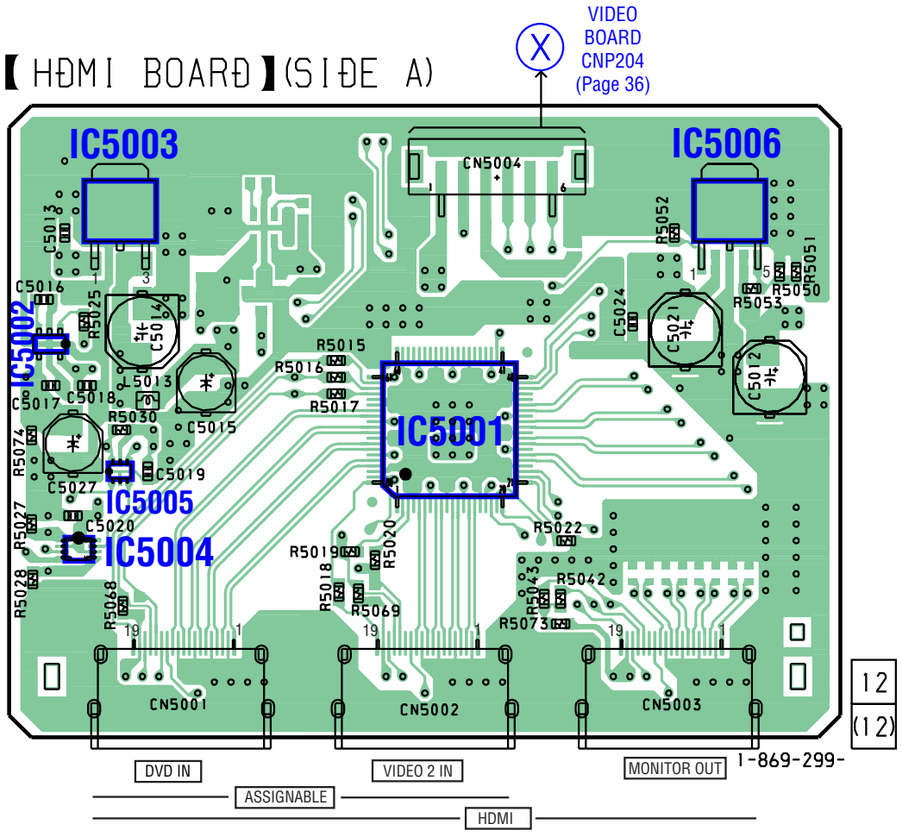
• See page 43 for IC Block Diagrams.



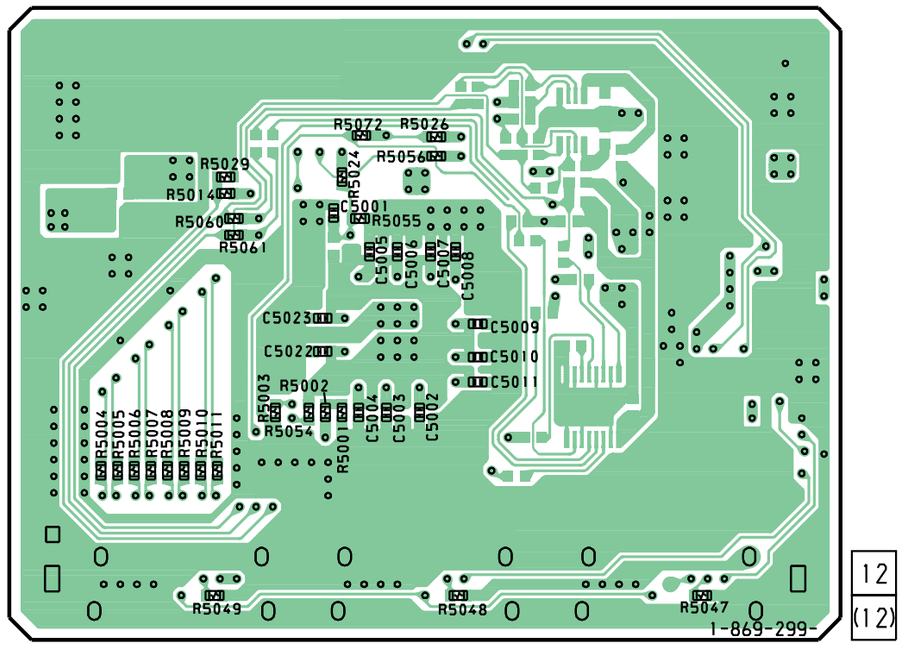
3-23. PRINTED WIRING BOARD – HDMI BOARD – • See page 15 for Circuit Boards Location. :Uses unleaded solder.

SP,SP6,AUS

【HDMI BOARD】(SIDE A)



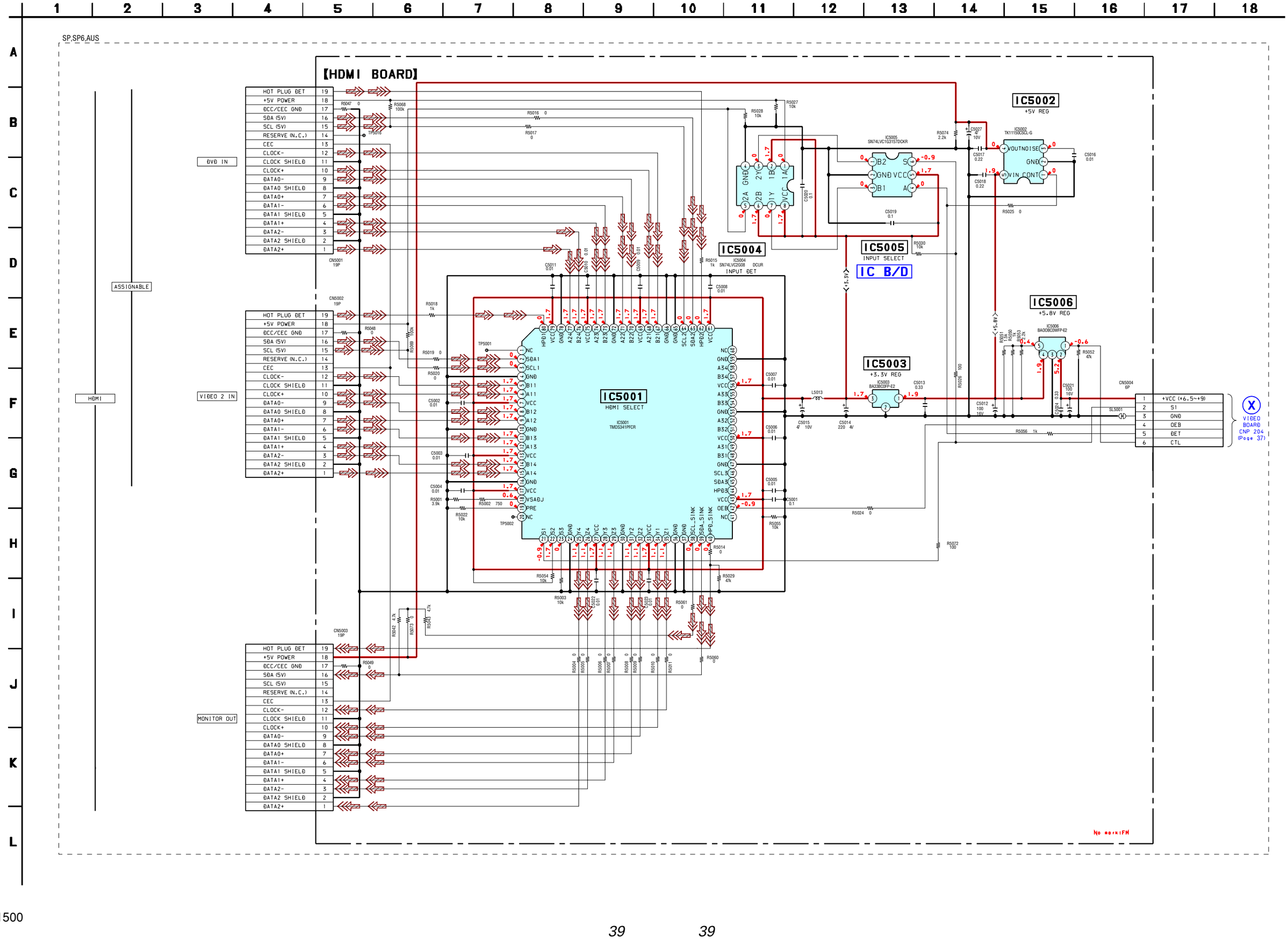
【HDMI BOARD】(SIDE B)



- **Semiconductor Location**

Ref. No.	Location
IC5001	B-3
IC5002	B-1
IC5003	B-2
IC5004	C-2
IC5005	C-2
IC5006	A-4

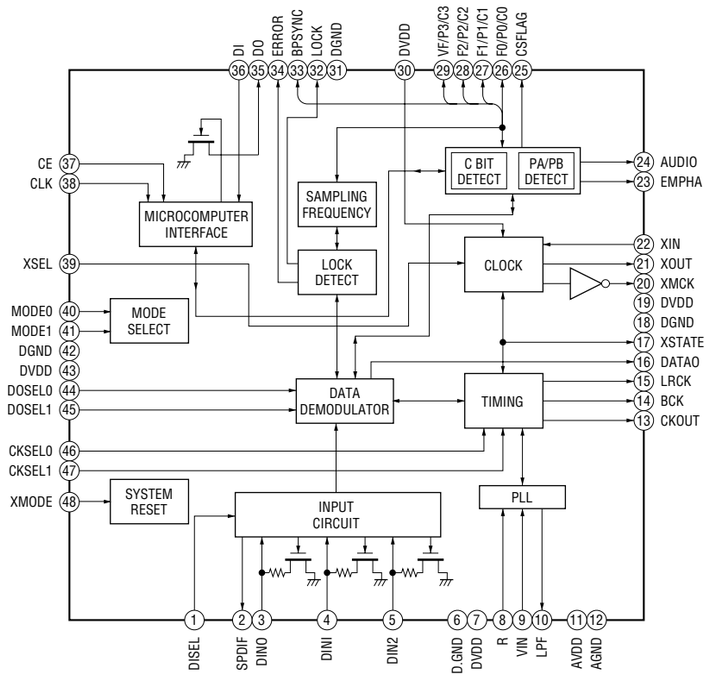
3-24. SCHEMATIC DIAGRAM – HDMI BOARD – • See page 42 for IC Block Diagram.



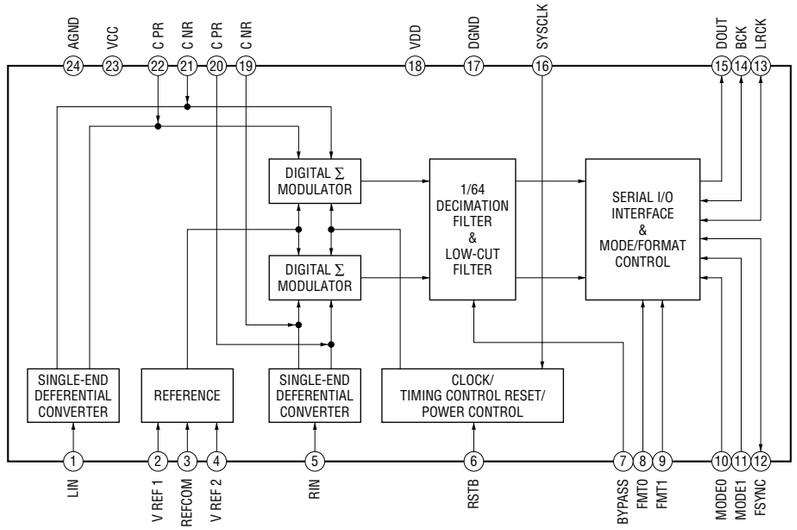
- **IC Block Diagrams**

– DIGITAL Board –

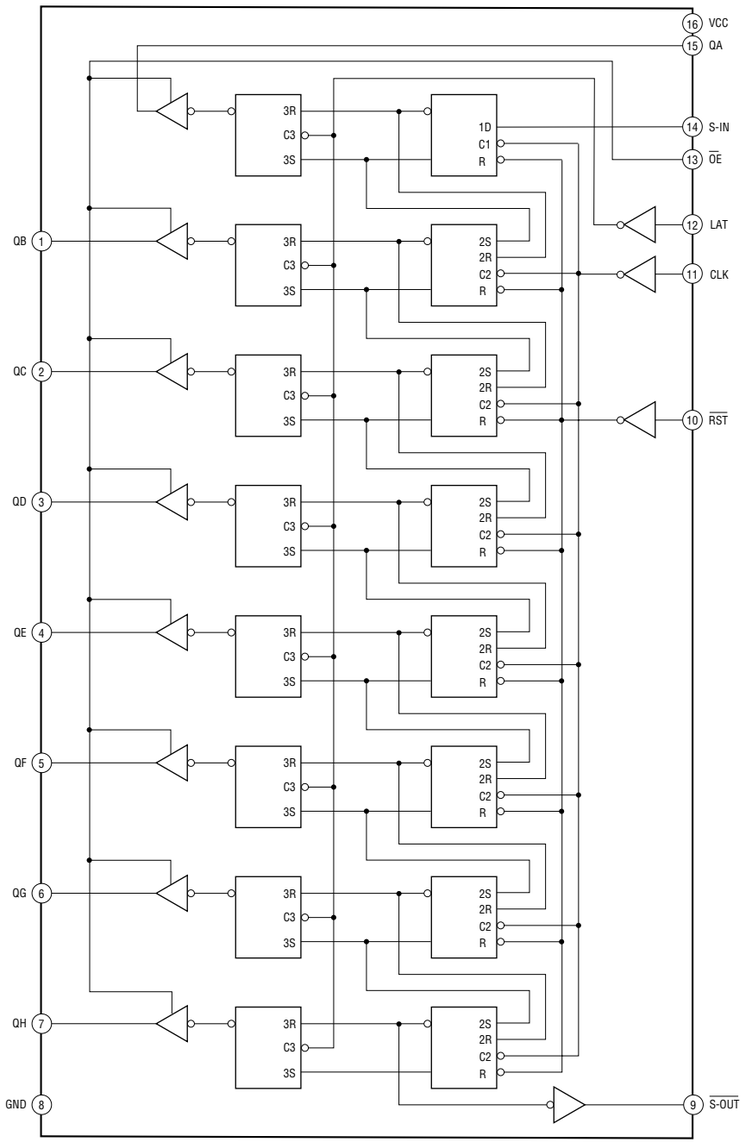
IC1301 LC89056W-E



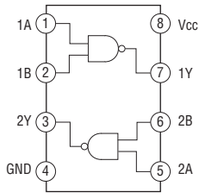
IC1401 PCM1800E



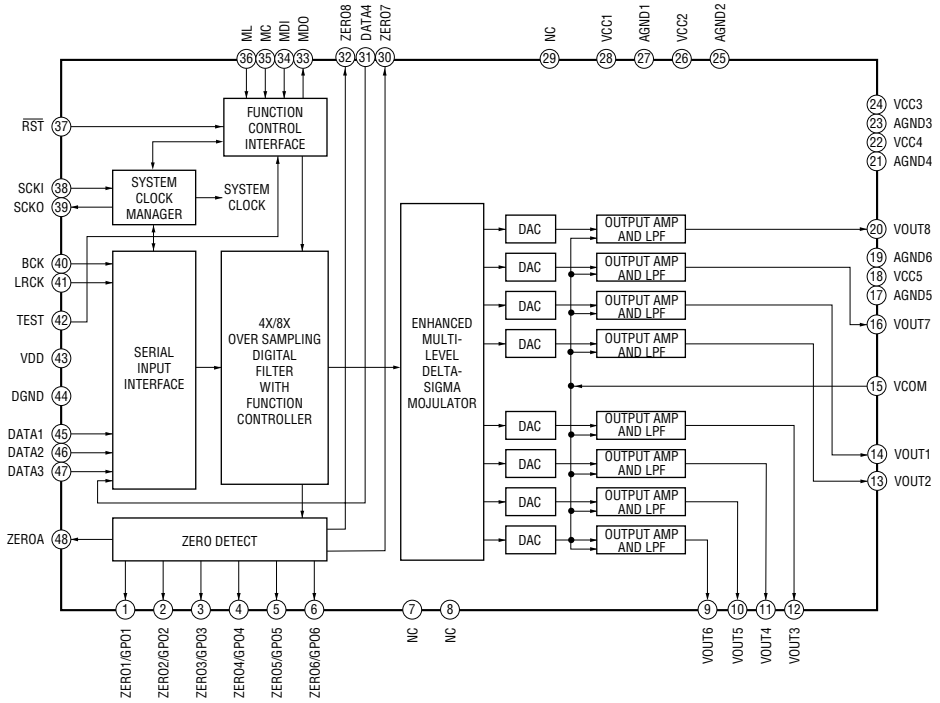
IC1601, IC1602 SN74HC595ANSR



IC1503 TC7WH157FU

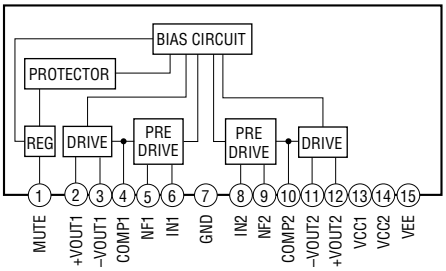


IC1452 PCM1609APT



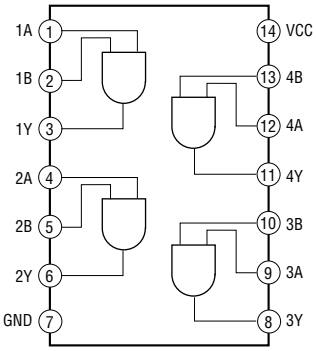
– MAIN Board –

IC501, IC601, IC701 uPC2581V-S

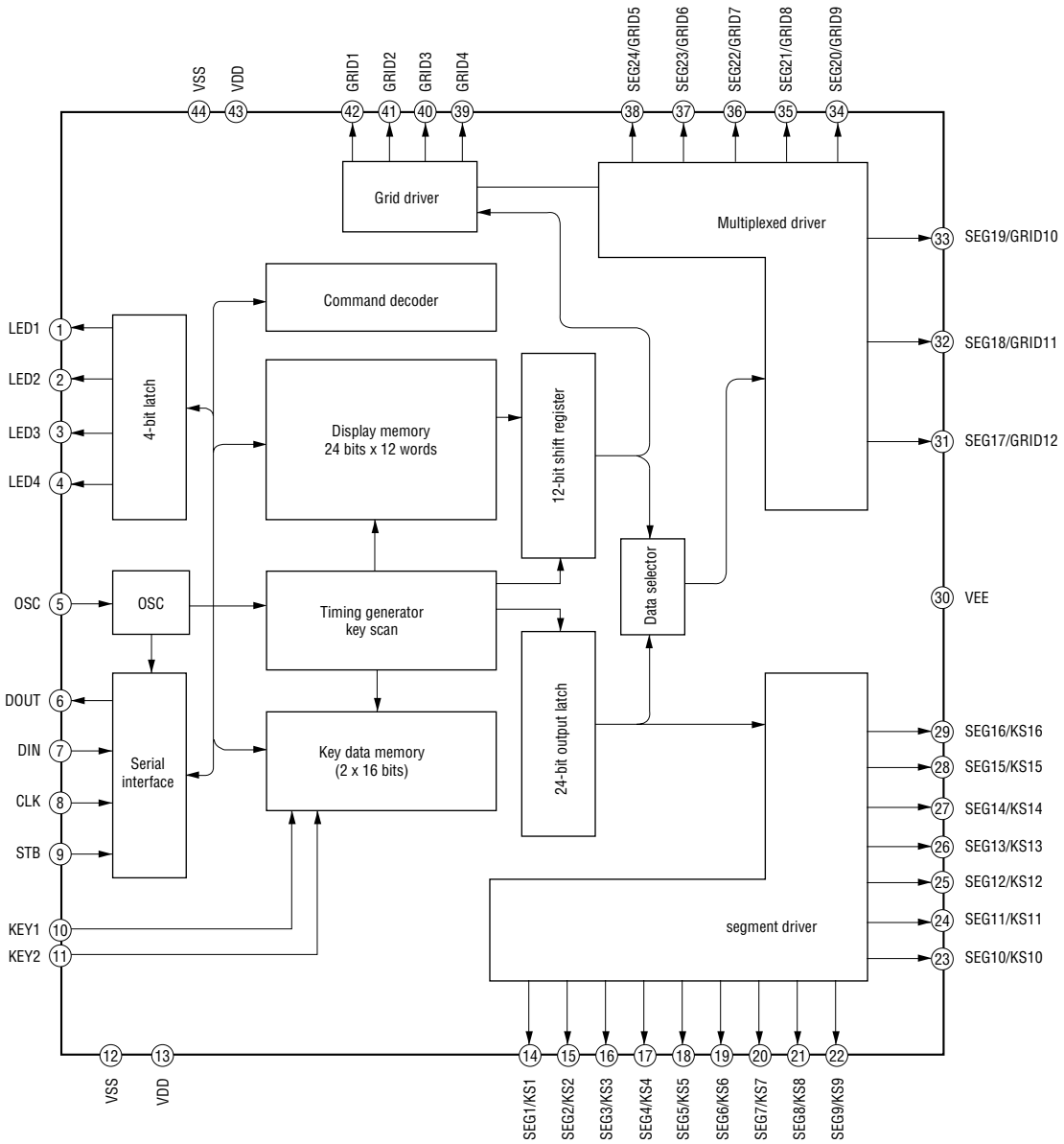


– DISPLAY Board –

IC101 MC74ACT08N

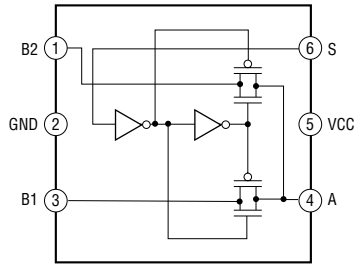


IC100 PT6315



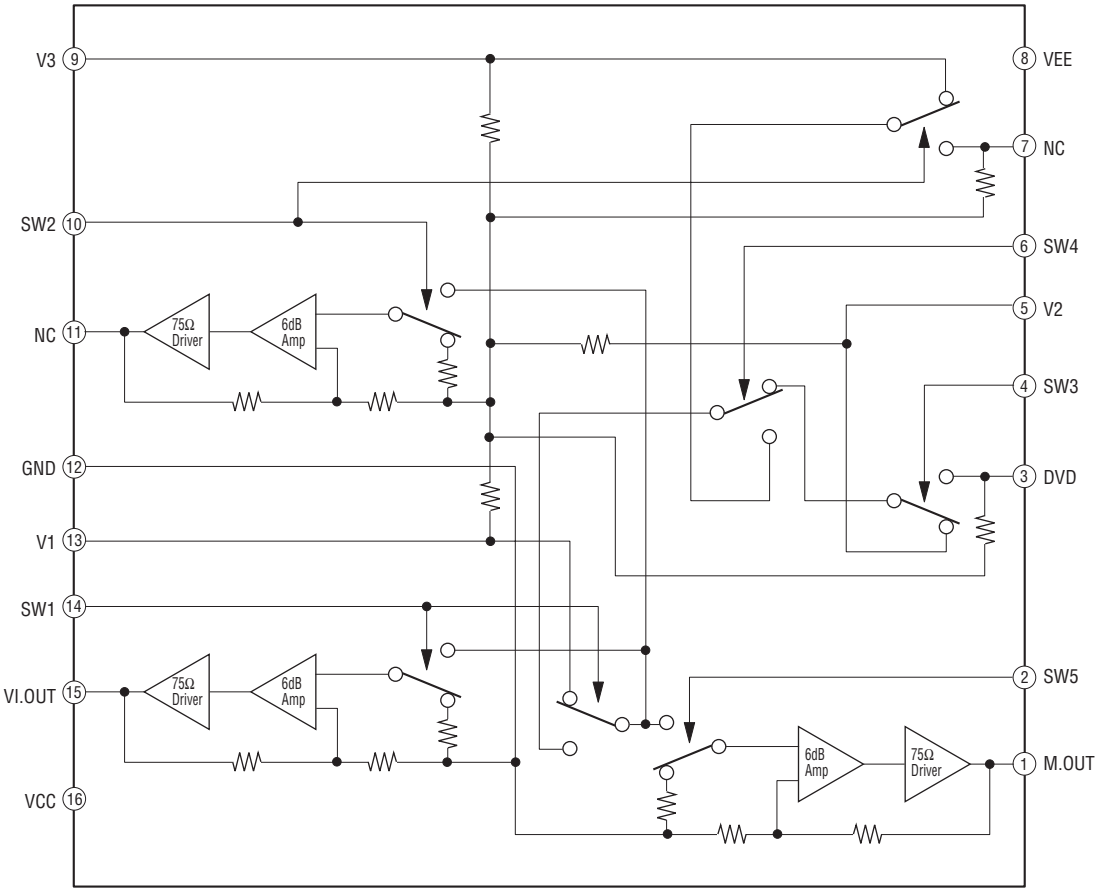
– HDMI Board –

IC5005 SN74LVC1G3157DCKR

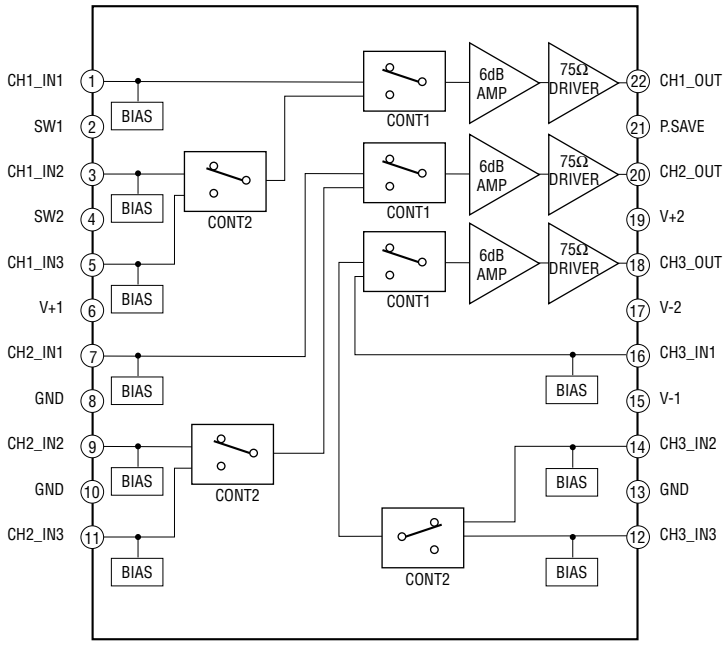


– VIDEO Board –

IC203 NJM2595D



IC304 NJM2586AL



• IC Pin Function Description

DIGITAL BOARD IC1101 MB90488BPF-G-175E1:MX, MB90488BPF-G-193E1: EXCEPT MX (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1	DATAO	I	Audio data signal input from DIR
2	GP9	I	GP9 signal input from DSP
3	BST	O	BST signal output to DSP
4	HCS	O	HCS signal output to DSP
5	HACN	I	HACN signal input from DSP
6	XRST	O	Reset signal output to DSP
7	PM	O	PM signal output to DSP
8	GP12	O	GP12 signal output to DSP
9	FL_LAT	O	FL driver latch signal output
10	PCM1608_RST	O	IC reset signal output to DAC
11	VSS	—	Ground terminal
12	PCM1608_ML	O	Latch signal output to DAC
13	PCM1608_MC	O	Clock signal output to DAC
14	PCM1608_MDI	O	IC data output to DAC
15	PCM1608_MDO	I	IC data input from DAC
16	T.SERIAL_CLK	O	Tuner clock signal output terminal
17	TUNER_DATA	O	Tuner data signal output terminal
18	HDOUT	I	HDOUT signal input from DSP
19	HDIN	O	HDIN signal output to DSP
20	HCLK	O	Clock signal output to DSP
21	TUNING_A	—	Tuning data output (not used)
22	TUNING_B	—	Tuning data output (not used)
23	VCC5	—	Power supply (+3.3V)
24	FL_RESET	O	FL driver reset signal output
25	FL_CLK	O	Not used
26	XM_RST	—	FL driver clock signal output terminal (not used)
27	FLASH2	O	FLASH2 signal output (not used)
28	FLASH1	O	FLASH1 signal output (not used)
29	SDA	I	EEPROM data signal input terminal
30	SCL	O	EEPROM clock signal output terminal
31	ENC_A	I	Input Encoder (A) signal input
32	ENC_B	I	Input Encoder (B) signal input
33	UPCON	—	Not used
34	UPCON_CLK	—	Not used
35	AVCC	—	Analog power supply (+3.3V)
36	AVRH	I	Analog reference voltage input (+3.3V)
37	AVSS	—	Analog ground terminal
38	ADCC	I	ADCC signal input
39	A/D1	I	Function key push signal input
40	A/D2	I	Function key push signal input
41	VERSION	I	Version setting input terminal (DESTINATION)
42	VSS	—	Ground terminal
43	RDS_SIG	I	RDS signal detect input (connected to ground terminal) (not used)
44	MODEL	I	MODEL select input
45	TONE_EN_B	I	Tone control input from rotary encoder.
46	TONE_EN_A	I	Tone control input from rotary encoder.
47	XMDACMS	O	Not used

Pin No.	Pin Name	I/O	Description
48	STOP	I	AC off detect signal input
49	MD0	I	Operation mode setting input
50	MD1	I	Operation mode setting input
51	MD2	I	Operation mode setting input
52	RDS_CLOCK	I	RDS clock signal input (Short to ground terminal)
53	RDS_DATA	I	RDS data signal input (Short to ground terminal)
54	SIRCS	I	Data signal input from the remote control sensor
55	HP_DETECT	I	Headphone signal input
56	POWER_KEY	I	Power switch key detect signal input
57	ADCC_DSP_INT	I	ADCC DSP interrept input
58	POWER_RY	O	Power relay control signal output
59	VOL_CL	O	Volume IC clock signal output
60	VOL_DA	O	Volume IC data and latch signal output
61	PROTECTOR	I	Protector status detect signal input
62	HP_RY	O	Headphone relay control signal output
63	FUSE_DETECT	I	Fuse detect signal input
64	VOL_ENC (B)	I	Volume signal input from rotary encoder
65	VOL_ENC (A)	I	Volume signal input from rotary encoder
66	FRONT_RY	O	Front A speaker relay control signal output
67	SP_B_RY	O	Front B speaker control signal output
68	C/SB_RY	O	Center speaker relay control signal output
69	REAR_RY	O	Rear speaker control signal output
70	SW_RY	O	Sub woofer control signal output
71	ANALOG_SW_CLK	O	Analog switch IC clock signal output
72	BRIGEABLE_RY	O	Brigeable relay control output
73	DO	I	Frequency data signal input from the tuner
74	SLATCH	O	Latch signal output to the tuner
75	TUNED	I	Tuning a frequency signal input from the tuner
76	STEREO	I	Stereo tuning signal input from the tuner
77	RSTX	I	System reset input
78	MUTE	O	Muting signal output to the tuner
79	X1A	—	Not used
80	X0A	—	Ground terminal
81	VSS	—	Ground terminal
82	X0	—	Connection for a crystal resonator
83	X1	—	Connection for a crystal resonator
84	VCC3	—	Power supply (+3.3V)
85	ANALOG_SW_DATA	O	Analog switch IC data output
86	D595_DATA	O	I/O expander data output
87	D595_CLK	O	I/O expander clock output
88	$\overline{\text{D595_OE}}$	O	I/O expander O/P enable output
89	D595_LAT	O	I/O expander latch signal output
90	SELECT 2	—	Not used
91	SELECT 1	—	Not used
92	BST_SEL	O	BST signal output terminal
93	XMODE	O	Reset signal output to DIR
94	CKSEL 1	O	CKSEL control signal output to DIR
95	CLK	O	Clock signal output to DIR
96	CE	O	Chip enable signal output to DIR

Pin No.	Pin Name	I/O	Description
97	DI	O	Data signal output to DIR
98	DO	I	Data signal input from DIR
99	ERROR	I	PLL error muting signal input from DIR
100	XSTATE	I	XSTATE data signal input from DIR

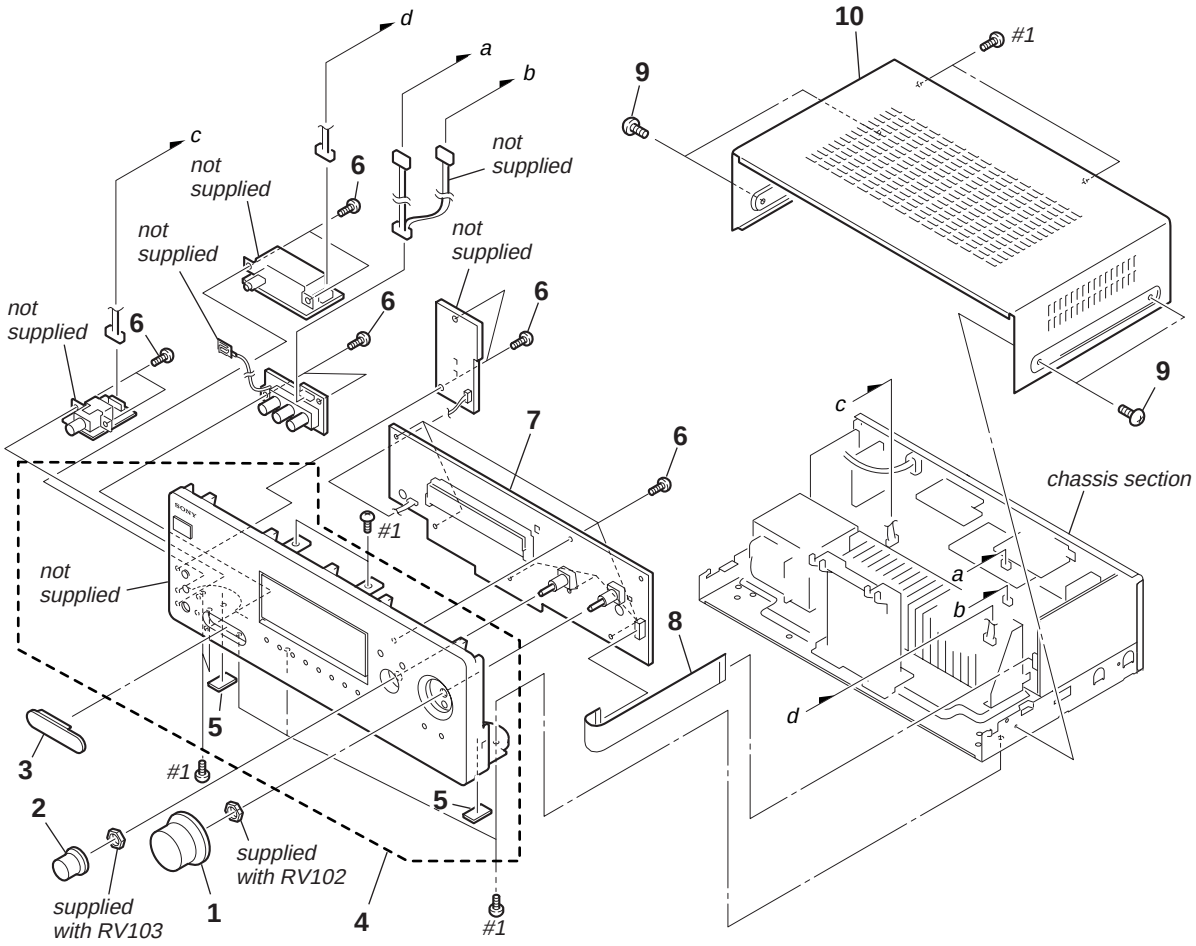
SECTION 4
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
  AUS : Australian model.
  E51 : Chilean and Peruvian models.
  MX : Mexican model.
  SP : Singapore model.
  SP6 : Singapore and Malaysia models.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

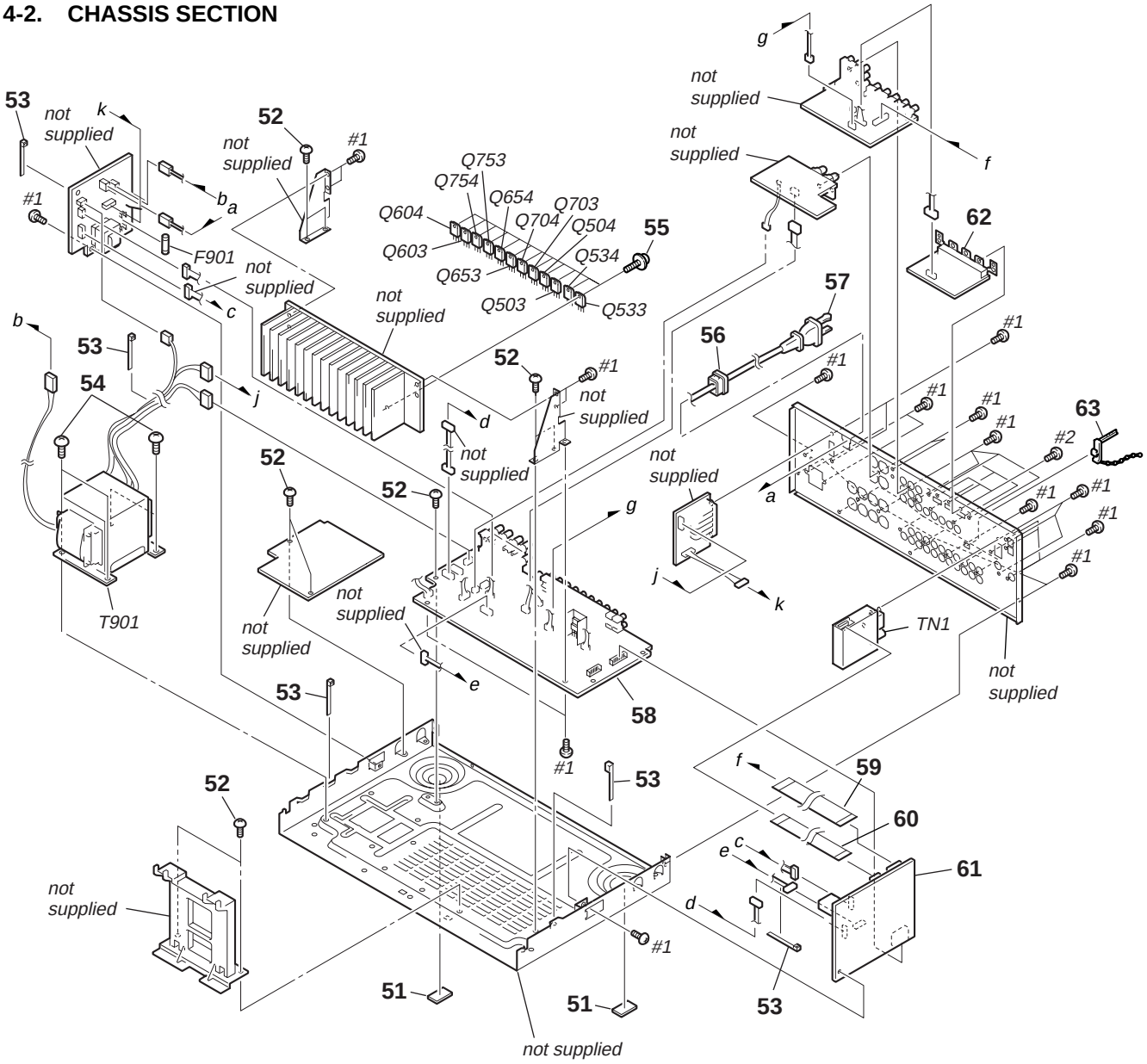
4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	2-661-142-11	VOLUME KNOB	
2	2-661-141-11	MENU KNOB	
3	2-666-844-11	LID	
4	X-2103-652-1	FRONT PANEL ASSY (SP, SP6, AUS)	
4	X-2109-043-1	FRONT PANEL ASSY (E51, MX)	
5	4-977-358-01	CUSHION	
6	3-087-053-01	+BVTP2.6 (3CR)	

Ref. No.	Part No.	Description	Remark
7	A-1158-388-A	DISPLAY BOARD, COMPLETE	
8	1-829-023-11	WIRE (FLAT TYPE) (23 CORE)	
9	3-363-099-11	SCREW (CASE 3 TP2)	
10	2-661-145-31	CASE	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

4-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
51	4-977-358-01	CUSHION	
52	3-077-331-21	+BV3 (3-CR)	
53	3-701-748-00	CLAMP	
54	4-249-675-02	+BV SUMITITE S 4X6 ROUND	
55	3-905-609-01	SCREW (TRANSISTOR)	
* 56	3-703-244-00	BUSHING (2104), CORD	
⚠57	1-696-847-11	CORD, POWER (AUS)	
⚠57	1-777-071-22	CORD, POWER (E51)	
⚠57	1-777-071-83	CORD, POWER (SP, SP6)	
⚠57	1-829-627-11	POWER-SUPPLY CORD (MX)	
58	A-1161-241-A	MAIN BOARD, COMPLETE (SP, SP6, AUS)	
58	A-1161-602-A	MAIN BOARD, COMPLETE (E51, MX)	
59	1-828-993-11	WIRE (FLAT TYPE) (17 CORE)	
60	1-828-963-11	WIRE (FLAT TYPE) (11 CORE)	
61	A-1158-877-A	DIGITAL BOARD, COMPLETE (SP, SP6)	
61	A-1158-878-A	DIGITAL BOARD, COMPLETE (AUS)	
61	A-1158-879-A	DIGITAL BOARD, COMPLETE (E51)	
61	A-1158-880-A	DIGITAL BOARD, COMPLETE (MX)	
62	A-1158-394-A	HDMI BOARD, COMPLETE (SP, SP6, AUS)	
63	4-956-370-12	BAND, PLUG FIXED (AUS)	
⚠F901	1-532-350-00	FUSE, TIME-LAG (T4AL/250V)(MX)	

Ref. No.	Part No.	Description	Remark
⚠F901	1-532-464-33	FUSE (T2.5AL/250V)(EXCEPT MX)	
Q503	6-702-390-01	IC MN2488-OPY-MK	
Q504	6-702-391-01	IC MP1620-OPY-MK	
Q533	6-702-390-01	IC MN2488-OPY-MK	
Q534	6-702-391-01	IC MP1620-OPY-MK	
Q603	6-702-390-01	IC MN2488-OPY-MK	
Q604	6-702-391-01	IC MP1620-OPY-MK	
Q653	6-702-390-01	IC MN2488-OPY-MK	
Q654	6-702-391-01	IC MP1620-OPY-MK	
Q703	6-702-390-01	IC MN2488-OPY-MK	
Q704	6-702-391-01	IC MP1620-OPY-MK	
Q753	6-702-390-01	IC MN2488-OPY-MK	
Q754	6-702-391-01	IC MP1620-OPY-MK	
⚠T901	1-443-523-11	POWER TRANSFORMER (MX)	
⚠T901	1-443-525-11	POWER TRANSFORMER (SP, SP6, AUS)	
⚠T901	1-443-526-11	POWER TRANSFORMER (E51)	
TN1	1-693-675-11	TUNER (E51, MX)	
TN2	1-693-678-11	TUNER (SP, SP6, AUS)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-682-547-04	SCREW +B 3X6 (SP, SP6, AUS)	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- COILS
  uH: μH
- CAPACITORS
  uF: μF
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . uPA. . : μPA. .
  uPB. . : μPB. . uPC. . : μPC. .
  uPD. . : μPD. .

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- Abbreviation
  AUS : Australian model.
  E51 : Chilean and Peruvian models.
  MX : Mexican model.
  SP : Singapore model.
  SP6 : Singapore and Malaysia models.

Ref. No.	Part No.	Description			Remark
		AC SELECT BOARD (E51)			
		**********			
		< CONNECTOR >			
* CNP910	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P			
		< SWITCH >			
⚠S901	1-571-437-21	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)			
**********					
		ADCC BOARD			
		**********			
		< CAPACITOR >			
C2001	1-128-809-11	CERAMIC	100PF	5%	50V
C2002	1-126-160-11	ELECT	1uF	20%	50V
C2003	1-127-882-31	CERAMIC	0.033uF	10%	50V
C2005	1-128-803-11	CERAMIC	33PF	5%	50V
C2006	1-126-160-11	ELECT	1uF	20%	50V
C2008	1-128-806-11	CERAMIC	56PF	5%	50V
C2010	1-127-882-31	CERAMIC	0.033uF	10%	50V
C2011	1-127-880-11	CERAMIC	0.022uF	10%	50V
C2012	1-127-880-11	CERAMIC	0.022uF	10%	50V
C2013	1-126-160-11	ELECT	1uF	20%	50V
C2014	1-124-465-00	ELECT	0.47uF	20%	50V
C2018	1-127-888-11	CERAMIC	0.1uF	10%	50V
		< CONNECTOR >			
CNP2000	1-784-921-11	PIN, CONNECTOR 4P			
		< DIODE >			
D2013	8-719-991-33	DIODE 1SS133T-72			
D2014	8-719-991-33	DIODE 1SS133T-72			
		< IC >			
IC2000	8-759-167-88	IC NJM4565D			
		< JACK >			
J2000	1-820-056-11	SMALL TYPE JACK (AUTO CAL MIC)			
		< RESISTOR >			
R2000	1-247-831-91	CARBON	1K	5%	1/4W
R2001	1-249-429-11	CARBON	10K	5%	1/4W
R2003	1-249-429-11	CARBON	10K	5%	1/4W
R2005	1-247-903-00	CARBON	1M	5%	1/4W
R2006	1-247-831-91	CARBON	1K	5%	1/4W
R2007	1-249-429-11	CARBON	10K	5%	1/4W
R2008	1-247-897-11	CARBON	560K	5%	1/4W
R2010	1-249-429-11	CARBON	10K	5%	1/4W
R2015	1-249-435-11	CARBON	33K	5%	1/4W
R2016	1-249-431-11	CARBON	15K	5%	1/4W
R2017	1-249-421-11	CARBON	2.2K	5%	1/4W
R2018	1-249-418-11	CARBON	1.2K	5%	1/4W
R2019	1-249-421-11	CARBON	2.2K	5%	1/4W
**********					
	A-1158-877-A	DIGITAL BOARD, COMPLETE (SP, SP6)			
	A-1158-878-A	DIGITAL BOARD, COMPLETE (AUS)			
	A-1158-879-A	DIGITAL BOARD, COMPLETE (E51)			
	A-1158-880-A	DIGITAL BOARD, COMPLETE (MX)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C1001	1-126-925-91	ELECT	470uF	20%	10V
C1002	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1004	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1005	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1021	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1022	1-126-925-91	ELECT	470uF	20%	10V
C1031	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1032	1-126-925-91	ELECT	470uF	20%	10V
C1100	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1102	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1103	1-126-947-11	ELECT	47uF	20%	35V
C1104	1-216-864-11	SHORT CHIP	0		
C1105	1-216-864-11	SHORT CHIP	0		
C1107	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1108	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1118	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1119	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1120	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1121	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1122	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1123	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1124	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1129	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1130	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1131	1-162-974-11	CERAMIC CHIP	0.01uF		50V

DIGITAL

Ref. No.	Part No.	Description			Remark
C1132	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1137	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1138	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1139	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1140	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1142	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1144	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1145	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1146	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1149	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1171	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1172	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1251	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1252	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1253	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1254	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1255	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1299	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1301	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1302	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1303	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1304	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1305	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1306	1-126-947-11	ELECT	47uF	20%	35V
C1308	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1309	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C1310	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C1312	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1313	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1314	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1315	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1351	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1354	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1355	1-104-662-91	ELECT	22uF	20%	25V
C1357	1-162-905-11	CERAMIC CHIP	1PF	0.25PF	50V
C1358	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1359	1-126-916-11	ELECT	1000uF	20%	6.3V
C1360	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1361	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1362	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1401	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1402	1-126-947-11	ELECT	47uF	20%	35V
C1403	1-126-964-11	ELECT	10uF	20%	50V
C1404	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1405	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C1406	1-126-963-11	ELECT	4.7uF	20%	50V
C1407	1-126-963-11	ELECT	4.7uF	20%	50V
C1408	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C1409	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1411	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1413	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1418	1-126-964-11	ELECT	10uF	20%	50V
C1422	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1423	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1428	1-126-964-11	ELECT	10uF	20%	50V
C1432	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1433	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1438	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C1441	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1442	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1448	1-126-964-11	ELECT	10uF	20%	50V
C1450	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1451	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1453	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1454	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1457	1-126-964-11	ELECT	10uF	20%	50V
C1458	1-126-964-11	ELECT	10uF	20%	50V
C1460	1-126-964-11	ELECT	10uF	20%	50V
C1462	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1463	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1468	1-126-964-11	ELECT	10uF	20%	50V
C1472	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1473	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1478	1-126-964-11	ELECT	10uF	20%	50V
C1481	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1483	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1487	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1491	1-126-964-11	ELECT	10uF	20%	50V
C1494	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1495	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1501	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1502	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1503	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1504	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1505	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1506	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1507	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1508	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1509	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1510	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1511	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1513	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1514	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1515	1-126-925-91	ELECT	470uF	20%	10V
C1516	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1517	1-126-925-91	ELECT	470uF	20%	10V
C1518	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1519	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1520	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1521	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C1522	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C1525	1-126-925-91	ELECT	470uF	20%	10V
C1540	1-216-833-11	METAL CHIP	10K	5%	1/10W
C1543	1-216-833-11	METAL CHIP	10K	5%	1/10W
C1544	1-216-833-11	METAL CHIP	10K	5%	1/10W
C1545	1-216-833-11	METAL CHIP	10K	5%	1/10W
C1547	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1557	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1566	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1567	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1568	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1569	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1601	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1602	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1604	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V

Ref. No.	Part No.	Description			Remark
C1605	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1620	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1905	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1906	1-126-925-91	ELECT	470uF	20%	10V
C1908	1-126-925-91	ELECT	470uF	20%	10V
C1913	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1914	1-126-947-11	ELECT	47uF	20%	35V
C2216	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C2217	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C2218	1-126-947-11	ELECT	47uF	20%	35V
		< CONNECTOR >			
CNP503	1-784-922-11	PIN, CONNECTOR 5P			
CNP504	1-784-923-11	PIN, CONNECTOR 7P			
CNP505	1-784-925-11	PIN, CONNECTOR 10P			
CNS501	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P			
CNS502	1-766-719-41	CONNECTOR, BOARD TO BOARD 10P			
CNS504	1-568-828-11	CONNECTOR, FFC 9P			
CNS505	1-784-784-11	CONNECTOR, FFC 23P			
CNS508	1-568-830-11	CONNECTOR, FFC 11P			
CNS509	1-784-778-11	CONNECTOR, FFC 17P			
		< DIODE >			
D1001	8-719-053-18	DIODE 1SR154-400TE-25			
D1003	8-719-049-09	DIODE 1SS367-T3SONY			
D1004	8-719-049-09	DIODE 1SS367-T3SONY			
D1107	8-719-988-61	DIODE 1SS355TE-17			
D1108	8-719-988-61	DIODE 1SS355TE-17			
D1110	8-719-988-61	DIODE 1SS355TE-17			
D1111	8-719-988-61	DIODE 1SS355TE-17			
D1301	8-719-988-61	DIODE 1SS355TE-17			
D1302	8-719-988-61	DIODE 1SS355TE-17			
D1501	8-719-049-09	DIODE 1SS367-T3SONY			
D1502	8-719-049-09	DIODE 1SS367-T3SONY			
D1503	8-719-049-09	DIODE 1SS367-T3SONY			
D1504	8-719-049-09	DIODE 1SS367-T3SONY			
		< FERRITE BEAD >			
FB1101	1-469-710-21	FERRITE, EMI (SMD) (2012)			
FB1302	1-469-710-21	FERRITE, EMI (SMD) (2012)			
FB1305	1-469-710-21	FERRITE, EMI (SMD) (2012)			
FB1306	1-469-710-21	FERRITE, EMI (SMD) (2012)			
FB1308	1-469-710-21	FERRITE, EMI (SMD) (2012)			
FB1405	1-469-710-21	FERRITE, EMI (SMD) (2012)			
FB1452	1-469-710-21	FERRITE, EMI (SMD) (2012)			
FB1453	1-469-710-21	FERRITE, EMI (SMD) (2012)			
FB1501	1-469-710-21	FERRITE, EMI (SMD) (2012)			
FB1502	1-469-710-21	FERRITE, EMI (SMD) (2012)			
FB1503	1-469-710-21	FERRITE, EMI (SMD) (2012)			
FB2034	1-469-710-21	FERRITE, EMI (SMD) (2012)			
		< IC >			
IC1001	8-759-231-53	IC TA7805S			
IC1031	6-705-464-01	IC BA50BC0T			
IC1101	6-806-144-01	IC MB90488BPF-G-175E1 (MX)			
IC1101	6-806-529-01	IC MB90488BPF-G-193E1 (EXCEPT MX)			
IC1111	6-702-913-01	IC S-80929CNMC-G8ZT2G			
IC1131	6-705-866-01	IC BR24L16FJ-WE2			

Ref. No.	Part No.	Description			Remark
IC1301	8-759-825-15	IC LC89056W-E			
IC1303	8-759-242-70	IC TC7WU04F (TE12R)			
IC1351	6-600-466-01	IC TORX147L (VIDEO 2/OPTICAL)			
IC1354	6-600-466-01	IC TORX147L (VIDEO 1/OPTICAL)			
IC1401	8-759-560-56	IC PCM1800E/2K			
IC1403	8-759-710-97	IC NJM4565M (TE2)			
IC1404	8-759-710-97	IC NJM4565M (TE2)			
IC1405	8-759-710-97	IC NJM4565M (TE2)			
IC1406	8-759-710-97	IC NJM4565M (TE2)			
IC1452	6-708-785-01	IC PCM1609APT			
IC1501	6-705-900-01	IC CXD9718BQ			
IC1502	6-709-278-01	IC IS61WV6416BLL-12TLI			
IC1503	8-759-546-74	IC TC7WH157FU (TE12R)			
IC1601	8-759-268-29	IC SN74HC595ANSR			
IC1602	8-759-268-29	IC SN74HC595ANSR			
IC1901	6-701-887-02	IC SI-3004KWF			
IC1902	6-703-550-01	IC TA7809LS			
IC1904	6-705-463-01	IC BA33BC0T			
		< JACK >			
J1301	1-794-972-11	JACK, PIN 1P (DVD IN/COAXIAL)			
		< JUMPER RESISTOR >			
JR1005	1-216-864-11	SHORT CHIP	0		
JR1008	1-216-864-11	SHORT CHIP	0		
JR1015	1-211-950-11	SHORT CHIP	0		
JR1016	1-211-950-11	SHORT CHIP	0		
JR1019	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
JR1020	1-216-864-11	SHORT CHIP	0		
JR1104	1-216-864-11	SHORT CHIP	0		
JR1202	1-216-864-11	SHORT CHIP	0		
JR1207	1-211-950-11	SHORT CHIP	0		
JR1302	1-216-864-11	SHORT CHIP	0		
JR1303	1-216-864-11	SHORT CHIP	0		
JR1511	1-469-710-21	FERRITE, EMI (SMD) (2012)			
		< RESISTOR >			
R1010	1-216-809-11	METAL CHIP	100	5%	1/10W
R1011	1-216-809-11	METAL CHIP	100	5%	1/10W
R1012	1-216-809-11	METAL CHIP	100	5%	1/10W
R1013	1-216-809-11	METAL CHIP	100	5%	1/10W
R1014	1-216-809-11	METAL CHIP	100	5%	1/10W
R1015	1-216-809-11	METAL CHIP	100	5%	1/10W
R1016	1-216-809-11	METAL CHIP	100	5%	1/10W
R1035	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1039	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1041	1-216-809-11	METAL CHIP	100	5%	1/10W
R1042	1-216-809-11	METAL CHIP	100	5%	1/10W
R1044	1-216-809-11	METAL CHIP	100	5%	1/10W
R1049	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1061	1-216-809-11	METAL CHIP	100	5%	1/10W
R1062	1-216-809-11	METAL CHIP	100	5%	1/10W
R1063	1-216-809-11	METAL CHIP	100	5%	1/10W
R1065	1-216-809-11	METAL CHIP	100	5%	1/10W
R1066	1-216-809-11	METAL CHIP	100	5%	1/10W
R1067	1-216-809-11	METAL CHIP	100	5%	1/10W
R1068	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1072	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1073	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1076	1-216-809-11	METAL CHIP	100	5%	1/10W
R1077	1-216-809-11	METAL CHIP	100	5%	1/10W
R1078	1-216-809-11	METAL CHIP	100	5%	1/10W
R1081	1-216-809-11	METAL CHIP	100	5%	1/10W
R1082	1-216-809-11	METAL CHIP	100	5%	1/10W
R1083	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1084	1-216-809-11	METAL CHIP	100	5%	1/10W
R1088	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1094	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1095	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1096	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1097	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1103	1-216-864-11	SHORT CHIP	0		
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1106	1-216-809-11	METAL CHIP	100	5%	1/10W
R1107	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1108	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1109	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1110	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1111	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1112	1-216-809-11	METAL CHIP	100	5%	1/10W
R1113	1-216-809-11	METAL CHIP	100	5%	1/10W
R1114	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1115	1-216-809-11	METAL CHIP	100	5%	1/10W
R1116	1-216-809-11	METAL CHIP	100	5%	1/10W
R1117	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1118	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1119	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1120	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1121	1-216-809-11	METAL CHIP	100	5%	1/10W
R1122	1-216-809-11	METAL CHIP	100	5%	1/10W
R1123	1-216-809-11	METAL CHIP	100	5%	1/10W
R1124	1-216-809-11	METAL CHIP	100	5%	1/10W
R1125	1-216-809-11	METAL CHIP	100	5%	1/10W
R1126	1-216-809-11	METAL CHIP	100	5%	1/10W
R1127	1-216-809-11	METAL CHIP	100	5%	1/10W
R1128	1-216-809-11	METAL CHIP	100	5%	1/10W
R1129	1-216-809-11	METAL CHIP	100	5%	1/10W
R1130	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1134	1-216-809-11	METAL CHIP	100	5%	1/10W
R1135	1-216-809-11	METAL CHIP	100	5%	1/10W
R1136	1-216-809-11	METAL CHIP	100	5%	1/10W
R1137	1-216-809-11	METAL CHIP	100	5%	1/10W
R1140	1-216-809-11	METAL CHIP	100	5%	1/10W
R1142	1-216-809-11	METAL CHIP	100	5%	1/10W
R1143	1-216-809-11	METAL CHIP	100	5%	1/10W
R1144	1-216-809-11	METAL CHIP	100	5%	1/10W
R1149	1-216-809-11	METAL CHIP	100	5%	1/10W
R1150	1-216-809-11	METAL CHIP	100	5%	1/10W
R1151	1-216-809-11	METAL CHIP	100	5%	1/10W
R1152	1-216-809-11	METAL CHIP	100	5%	1/10W
R1153	1-216-809-11	METAL CHIP	100	5%	1/10W
R1154	1-216-809-11	METAL CHIP	100	5%	1/10W
R1155	1-216-809-11	METAL CHIP	100	5%	1/10W
R1156	1-216-864-11	SHORT CHIP	0		
R1157	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R1159	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1160	1-216-809-11	METAL CHIP	100	5%	1/10W
R1161	1-216-809-11	METAL CHIP	100	5%	1/10W
R1162	1-216-809-11	METAL CHIP	100	5%	1/10W
R1163	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1164	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1179	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1180	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1181	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1182	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1183	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1184	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1185	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1186	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1187	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1188	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1189	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1190	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1191	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1192	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1193	1-216-833-11	METAL CHIP	10K	5%	1/10W (E51)
R1193	1-216-837-11	METAL CHIP	22K	5%	1/10W (AUS)
R1193	1-216-841-11	METAL CHIP	47K	5%	1/10W (SP, SP6, MX)
R1194	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (SP, SP6)
R1194	1-216-841-11	METAL CHIP	47K	5%	1/10W (EXCEPT SP, SP6)
R1201	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1251	1-216-840-11	METAL CHIP	39K	5%	1/10W
R1252	1-216-840-11	METAL CHIP	39K	5%	1/10W
R1260	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1261	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1301	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1303	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1304	1-216-809-11	METAL CHIP	100	5%	1/10W
R1305	1-216-819-11	METAL CHIP	680	5%	1/10W
R1306	1-216-801-11	METAL CHIP	22	5%	1/10W
R1307	1-216-809-11	METAL CHIP	100	5%	1/10W
R1308	1-216-809-11	METAL CHIP	100	5%	1/10W
R1309	1-216-809-11	METAL CHIP	100	5%	1/10W
R1310	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1311	1-216-809-11	METAL CHIP	100	5%	1/10W
R1312	1-216-809-11	METAL CHIP	100	5%	1/10W
R1313	1-216-809-11	METAL CHIP	100	5%	1/10W
R1314	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1315	1-216-809-11	METAL CHIP	100	5%	1/10W
R1316	1-216-809-11	METAL CHIP	100	5%	1/10W
R1318	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1319	1-216-864-11	SHORT CHIP	0		
R1321	1-216-864-11	SHORT CHIP	0		
R1323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1351	1-216-809-11	METAL CHIP	100	5%	1/10W
R1354	1-216-809-11	METAL CHIP	100	5%	1/10W
R1355	1-218-285-11	METAL CHIP	75	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1356	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1357	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1358	1-216-854-11	METAL CHIP	560K	5%	1/10W
R1359	1-216-809-11	METAL CHIP	100	5%	1/10W
R1360	1-216-809-11	METAL CHIP	100	5%	1/10W
R1362	1-216-809-11	METAL CHIP	100	5%	1/10W
R1401	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1402	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1403	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1407	1-216-809-11	METAL CHIP	100	5%	1/10W
R1414	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1416	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1420	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
R1421	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1424	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1425	1-216-864-11	SHORT CHIP	0		
R1426	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1434	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1435	1-216-864-11	SHORT CHIP	0		
R1436	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1444	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1445	1-216-864-11	SHORT CHIP	0		
R1446	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1454	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1455	1-216-864-11	SHORT CHIP	0		
R1460	1-216-864-11	SHORT CHIP	0		
R1461	1-216-864-11	SHORT CHIP	0		
R1463	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1464	1-216-864-11	SHORT CHIP	0		
R1466	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1470	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1471	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
R1472	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
R1473	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1474	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1475	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
R1476	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1483	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1484	1-216-864-11	SHORT CHIP	0		
R1486	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1490	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1491	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1492	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1493	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1494	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1495	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1501	1-216-809-11	METAL CHIP	100	5%	1/10W
R1502	1-216-809-11	METAL CHIP	100	5%	1/10W
R1503	1-216-813-11	METAL CHIP	220	5%	1/10W
R1504	1-216-809-11	METAL CHIP	100	5%	1/10W
R1505	1-216-809-11	METAL CHIP	100	5%	1/10W
R1506	1-216-809-11	METAL CHIP	100	5%	1/10W
R1507	1-216-809-11	METAL CHIP	100	5%	1/10W
R1508	1-216-809-11	METAL CHIP	100	5%	1/10W
R1509	1-216-809-11	METAL CHIP	100	5%	1/10W
R1510	1-216-809-11	METAL CHIP	100	5%	1/10W
R1511	1-216-809-11	METAL CHIP	100	5%	1/10W
R1512	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1513	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1514	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1515	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1523	1-216-813-11	METAL CHIP	220	5%	1/10W
R1524	1-216-864-11	SHORT CHIP	0		
R1530	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1541	1-216-813-11	METAL CHIP	220	5%	1/10W
R1555	1-216-813-11	METAL CHIP	220	5%	1/10W
R1556	1-216-809-11	METAL CHIP	100	5%	1/10W
R1557	1-216-813-11	METAL CHIP	220	5%	1/10W
R1570	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1571	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1572	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1573	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1574	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1635	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1636	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

< COMPOSITION CIRCUIT BLOCK >

RB1500	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB1501	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB1502	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB1503	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB1504	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB1506	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB1507	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB1508	1-233-576-11	RES, CHIP NETWORK	100 (3216)

< VIBRATOR >

X1101	1-813-448-21	PIEZOELECTRIC OSCILLATOR (24MHz)
X1301	1-795-126-21	VIBRATOR, CRYSTAL (12.288MHz)
X1502	1-813-276-21	QUARTZ CRYSTAL (13.9MHz)

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	A-1158-388-A	DISPLAY BOARD, COMPLETE

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< CAPACITOR >

C100	1-127-888-11	CERAMIC	0.1uF	10%	50V
C101	1-127-888-11	CERAMIC	0.1uF	10%	50V
C104	1-113-342-11	CERAMIC	0.1uF		50V
C105	1-126-795-11	ELECT	10uF	20%	50V
C106	1-127-868-11	CERAMIC	2200PF	10%	50V
C107	1-127-868-11	CERAMIC	2200PF	10%	50V
C108	1-127-888-11	CERAMIC	0.1uF	10%	50V
C109	1-127-888-11	CERAMIC	0.1uF	10%	50V
C110	1-162-286-31	CERAMIC	220PF	10%	50V
C111	1-162-286-31	CERAMIC	220PF	10%	50V
C112	1-162-286-31	CERAMIC	220PF	10%	50V
C114	1-135-798-11	CERAMIC	0.22uF		50V
C115	1-126-795-11	ELECT	10uF	20%	50V
C132	1-162-286-31	CERAMIC	220PF	10%	50V
C133	1-162-286-31	CERAMIC	220PF	10%	50V
C134	1-162-286-31	CERAMIC	220PF	10%	50V
C135	1-162-286-31	CERAMIC	220PF	10%	50V
C136	1-162-286-31	CERAMIC	220PF	10%	50V
C137	1-162-286-31	CERAMIC	220PF	10%	50V
C138	1-162-286-31	CERAMIC	220PF	10%	50V

Ref. No.	Part No.	Description			Remark
C139	1-162-286-31	CERAMIC	220PF	10%	50V
C140	1-162-286-31	CERAMIC	220PF	10%	50V
C141	1-162-286-31	CERAMIC	220PF	10%	50V
C142	1-162-286-31	CERAMIC	220PF	10%	50V
C143	1-162-286-31	CERAMIC	220PF	10%	50V
C144	1-127-888-11	CERAMIC	0.1uF	10%	50V
C145	1-127-888-11	CERAMIC	0.1uF	10%	50V
C146	1-126-795-11	ELECT	10uF	20%	50V
C147	1-162-286-31	CERAMIC	220PF	10%	50V
C148	1-162-286-31	CERAMIC	220PF	10%	50V
C149	1-162-286-31	CERAMIC	220PF	10%	50V
C150	1-127-888-11	CERAMIC	0.1uF	10%	50V
C151	1-127-888-11	CERAMIC	0.1uF	10%	50V
C152	1-127-888-11	CERAMIC	0.1uF	10%	50V
		< CONNECTOR >			
CNS100	1-784-784-11	CONNECTOR, FFC 23P			
		< DIODE >			
D105	6-500-647-01	DIODE SEL5E20C-STP15			
		< FLUORESCENT INDICATOR TUBE >			
FL101	1-519-866-01	VACUUM FLOURESCENT DISPLAYS			
		< IC >			
IC100	8-759-643-83	IC PT6315			
IC101	8-759-036-90	IC MC74ACT08N			
IC102	6-600-174-01	IC RPM7240-H4			
		< TRANSISTOR >			
Q110	8-729-119-78	TRANSISTOR	2SC1740S-QRT		
		< RESISTOR >			
R101	1-249-409-11	CARBON	220	5%	1/4W
R102	1-249-411-11	CARBON	330	5%	1/4W
R103	1-249-413-11	CARBON	470	5%	1/4W
R104	1-249-415-11	CARBON	680	5%	1/4W
R105	1-247-831-91	CARBON	1K	5%	1/4W
R106	1-249-419-11	CARBON	1.5K	5%	1/4W
R107	1-249-421-11	CARBON	2.2K	5%	1/4W
R108	1-249-409-11	CARBON	220	5%	1/4W
R109	1-249-411-11	CARBON	330	5%	1/4W
R110	1-249-413-11	CARBON	470	5%	1/4W
R111	1-249-415-11	CARBON	680	5%	1/4W
R115	1-247-807-31	CARBON	100	5%	1/4W
R116	1-247-807-31	CARBON	100	5%	1/4W
R117	1-247-807-31	CARBON	100	5%	1/4W
R118	1-249-440-11	CARBON	82K	5%	1/4W
R119	1-247-807-31	CARBON	100	5%	1/4W
⚠R120	1-249-393-11	CARBON	10	5%	1/4W
R121	1-249-393-11	CARBON	10	5%	1/4W
R122	1-247-804-11	CARBON	75	5%	1/4W
R123	1-249-429-11	CARBON	10K	5%	1/4W
R131	1-249-421-11	CARBON	2.2K	5%	1/4W
⚠R198	1-249-381-11	CARBON	1	5%	1/4W
⚠R199	1-249-381-11	CARBON	1	5%	1/4W

Ref. No.	Part No.	Description			Remark
		< VARIABLE RESISTOR >			
RV101	1-418-817-11	ENCODER, ROTARY (INPUT SELECTOR)			
RV102	1-418-725-41	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)			
		< SWITCH >			
S101	1-771-410-21	SWITCH, TACTILE (MUTING)			
S102	1-771-410-21	SWITCH, TACTILE (MULTI CH IN)			
S103	1-771-410-21	SWITCH, TACTILE (INPUT MODE)			
S104	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
S105	1-771-410-21	SWITCH, TACTILE (MOVIE)			
S106	1-771-410-21	SWITCH, TACTILE (A. F. D.)			
S107	1-771-410-21	SWITCH, TACTILE (2CH)			
S108	1-771-410-21	SWITCH, TACTILE (MEMORY/ ENTER)			
S109	1-771-410-21	SWITCH, TACTILE (TUNING –)			
S110	1-771-410-21	SWITCH, TACTILE (TUNING MODE)			
S111	1-771-410-21	SWITCH, TACTILE (TUNING +)			
S124	1-771-410-21	SWITCH, TACTILE (MUSIC)			
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	A-1158-394-A	HDMI BOARD, COMPLETE (SP, SP6, AUS)			
		**********			
		< CAPACITOR >			
C5001	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5002	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5003	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5004	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5005	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5006	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5007	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5008	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5009	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5010	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5011	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5012	1-117-681-11	ELECT CHIP	100uF	20%	16V
C5013	1-128-934-91	CERAMIC CHIP	0.33uF	20%	10V
C5014	1-126-246-11	ELECT CHIP	220uF	20%	4V
C5015	1-128-994-21	ELECT CHIP	47uF	20%	10V
C5016	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5017	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C5018	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C5019	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5020	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5021	1-117-681-11	ELECT CHIP	100uF	20%	16V
C5022	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5023	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5024	1-128-934-91	CERAMIC CHIP	0.33uF	20%	10V
C5027	1-128-994-21	ELECT CHIP	47uF	20%	10V
		< CONNECTOR >			
CN5001	1-818-086-41	HDMI CONNECTOR (DVD IN/ASSIGNABLE)			
CN5002	1-818-086-41	HDMI CONNECTOR (VIDEO 2 IN/ASSIGNABLE)			
CN5003	1-818-086-41	HDMI CONNECTOR (MONITOR OUT)			
* CN5004	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC5001	6-709-221-01	IC TMDS341PFCR			
IC5002	6-705-337-01	IC TK11150CSCL-G			
IC5003	6-705-468-01	IC BA33BC0FP-E2			
IC5004	6-704-351-01	IC SN74LVC2G08DCUR			
IC5005	6-707-207-01	IC SN74LVC1G3157DCKR			
IC5006	6-706-740-01	IC BA00BC0WFP-E2			
		< COIL >			
L5013	1-400-862-11	BEAD, FERRITE			
		< RESISTOR >			
R5001	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W
R5002	1-218-844-11	METAL CHIP	750	0.5%	1/10W
R5003	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5004	1-216-864-11	SHORT CHIP	0		
R5005	1-216-864-11	SHORT CHIP	0		
R5006	1-216-864-11	SHORT CHIP	0		
R5007	1-216-864-11	SHORT CHIP	0		
R5008	1-216-864-11	SHORT CHIP	0		
R5009	1-216-864-11	SHORT CHIP	0		
R5010	1-216-864-11	SHORT CHIP	0		
R5011	1-216-864-11	SHORT CHIP	0		
R5014	1-216-864-11	SHORT CHIP	0		
R5015	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5016	1-216-864-11	SHORT CHIP	0		
R5017	1-216-864-11	SHORT CHIP	0		
R5018	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5019	1-216-864-11	SHORT CHIP	0		
R5020	1-216-864-11	SHORT CHIP	0		
R5022	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5024	1-216-864-11	SHORT CHIP	0		
R5025	1-216-864-11	SHORT CHIP	0		
R5026	1-216-809-11	METAL CHIP	100	5%	1/10W
R5027	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5028	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5029	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5030	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5042	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5043	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5047	1-216-864-11	SHORT CHIP	0		
R5048	1-216-864-11	SHORT CHIP	0		
R5049	1-216-864-11	SHORT CHIP	0		
R5050	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5051	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R5052	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5053	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5054	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5055	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5056	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5060	1-216-864-11	SHORT CHIP	0		
R5061	1-216-864-11	SHORT CHIP	0		
R5068	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5069	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5072	1-216-809-11	METAL CHIP	100	5%	1/10W
R5073	1-216-864-11	SHORT CHIP	0		
R5074	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

Ref. No.	Part No.	Description			Remark
		HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C790	1-127-888-11	CERAMIC	0.1uF	10%	50V
C791	1-127-888-11	CERAMIC	0.1uF	10%	50V
		< CONNECTOR >			
CNP791	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
		< JACK >			
J791	1-815-314-21	JACK (PHONES)			
		< TEST PIN >			
* TP701	1-690-880-31	LEAD (WITH CONNECTOR)			
	A-1161-241-A	MAIN BOARD, COMPLETE (SP, SP6, AUS)			
	A-1161-602-A	MAIN BOARD, COMPLETE (E51, MX)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C400	1-127-888-11	CERAMIC	0.1uF	10%	50V
C403	1-127-888-11	CERAMIC	0.1uF	10%	50V
C408	1-126-963-11	ELECT	4.7uF	20%	50V
C409	1-126-963-11	ELECT	4.7uF	20%	50V
C444	1-127-868-11	CERAMIC	2200PF	10%	50V
C445	1-127-888-11	CERAMIC	0.1uF	10%	50V
C453	1-162-286-31	CERAMIC	220PF	10%	50V
C458	1-126-963-11	ELECT	4.7uF	20%	50V
C459	1-126-963-11	ELECT	4.7uF	20%	50V
C463	1-162-286-31	CERAMIC	220PF	10%	50V
C464	1-127-888-11	CERAMIC	0.1uF	10%	50V
C468	1-162-282-31	CERAMIC	100PF	10%	50V
C469	1-162-282-31	CERAMIC	100PF	10%	50V
C471	1-126-963-11	ELECT	4.7uF	20%	50V
C472	1-126-963-11	ELECT	4.7uF	20%	50V
C481	1-126-964-11	ELECT	10uF	20%	50V
C484	1-126-964-11	ELECT	10uF	20%	50V
C485	1-126-964-11	ELECT	10uF	20%	50V
C488	1-127-888-11	CERAMIC	0.1uF	10%	50V
C490	1-126-964-11	ELECT	10uF	20%	50V
C492	1-126-964-11	ELECT	10uF	20%	50V
C493	1-126-964-11	ELECT	10uF	20%	50V
C495	1-126-964-11	ELECT	10uF	20%	50V
C499	1-162-286-31	CERAMIC	220PF	10%	50V
C501	1-126-963-11	ELECT	4.7uF	20%	50V
C503	1-104-658-91	ELECT	100uF	20%	10V
C504	1-107-585-11	CERAMIC	5PF	0.25PF	500V
C505	1-102-233-00	CERAMIC	33PF	10%	500V
C506	1-162-282-31	CERAMIC	100PF	10%	50V
C507	1-162-282-31	CERAMIC	100PF	10%	50V
C510	1-126-947-11	ELECT	47uF	20%	35V
C511	1-136-157-00	FILM	0.022uF	5%	50V

Ref. No.	Part No.	Description			Remark
C516	1-162-815-11	CERAMIC	47PF	5%	500V
C517	1-162-815-11	CERAMIC	47PF	5%	500V
C519	1-162-286-31	CERAMIC	220PF	10%	50V
C529	1-127-876-11	CERAMIC	0.01uF	10%	50V
C531	1-136-157-00	FILM	0.022uF	5%	50V
C539	1-162-286-31	CERAMIC	220PF	10%	50V
C540	1-126-964-11	ELECT	10uF	20%	50V
C541	1-127-876-11	CERAMIC	0.01uF	10%	50V
C553	1-104-658-91	ELECT	100uF	20%	10V
C554	1-107-585-11	CERAMIC	5PF	0.25PF	500V
C561	1-126-963-11	ELECT	4.7uF	20%	50V
C565	1-102-233-00	CERAMIC	33PF	10%	500V
C566	1-162-282-31	CERAMIC	100PF	10%	50V
C567	1-162-282-31	CERAMIC	100PF	10%	50V
C570	1-126-947-11	ELECT	47uF	20%	35V
C576	1-162-815-11	CERAMIC	47PF	5%	500V
C577	1-162-815-11	CERAMIC	47PF	5%	500V
C580	1-126-964-11	ELECT	10uF	20%	50V
C581	1-127-876-11	CERAMIC	0.01uF	10%	50V
C601	1-126-963-11	ELECT	4.7uF	20%	50V
C603	1-104-658-91	ELECT	100uF	20%	10V
C604	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C605	1-102-233-00	CERAMIC	33PF	10%	500V
C606	1-162-282-31	CERAMIC	100PF	10%	50V
C607	1-162-282-31	CERAMIC	100PF	10%	50V
C610	1-126-947-11	ELECT	47uF	20%	35V
C611	1-136-157-00	FILM	0.022uF	5%	50V
C619	1-162-286-31	CERAMIC	220PF	10%	50V
C620	1-162-815-11	CERAMIC	47PF	5%	500V
C621	1-162-815-11	CERAMIC	47PF	5%	500V
C640	1-126-964-11	ELECT	10uF	20%	50V
C642	1-127-876-11	CERAMIC	0.01uF	10%	50V
C651	1-126-963-11	ELECT	4.7uF	20%	50V
C653	1-165-722-11	ELECT	100uF	20%	10V
C654	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C655	1-102-233-00	CERAMIC	33PF	10%	500V
C656	1-162-282-31	CERAMIC	100PF	10%	50V
C657	1-162-282-31	CERAMIC	100PF	10%	50V
C660	1-126-947-11	ELECT	47uF	20%	35V
C661	1-136-157-00	FILM	0.022uF	5%	50V
C666	1-162-815-11	CERAMIC	47PF	5%	500V
C669	1-162-815-11	CERAMIC	47PF	5%	500V
C670	1-162-286-31	CERAMIC	220PF	10%	50V
C680	1-126-964-11	ELECT	10uF	20%	50V
C681	1-127-876-11	CERAMIC	0.01uF	10%	50V
C691	1-127-888-11	CERAMIC	0.1uF	10%	50V
C701	1-126-963-11	ELECT	4.7uF	20%	50V
C702	1-126-964-11	ELECT	10uF	20%	50V
C703	1-165-722-11	ELECT	100uF	20%	10V
C704	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C705	1-102-233-00	CERAMIC	33PF	10%	500V
C706	1-162-282-31	CERAMIC	100PF	10%	50V
C707	1-162-282-31	CERAMIC	100PF	10%	50V
C710	1-126-947-11	ELECT	47uF	20%	35V
C711	1-136-157-00	FILM	0.022uF	5%	50V
C716	1-162-815-11	CERAMIC	47PF	5%	500V
C717	1-162-815-11	CERAMIC	47PF	5%	500V
C720	1-162-286-31	CERAMIC	220PF	10%	50V

Ref. No.	Part No.	Description			Remark
C721	1-126-923-91	ELECT	220uF	20%	10V
C722	1-126-964-11	ELECT	10uF	20%	50V
C729	1-127-876-11	CERAMIC	0.01uF	10%	50V
C732	1-128-582-11	ELECT	10uF	20%	100V
C733	1-128-582-11	ELECT	10uF	20%	100V
C740	1-126-964-11	ELECT	10uF	20%	50V
C741	1-128-579-11	ELECT	2.2uF	20%	100V
C742	1-127-876-11	CERAMIC	0.01uF	10%	50V
C743	1-128-579-11	ELECT	2.2uF	20%	100V
C744	1-128-579-11	ELECT	2.2uF	20%	100V
C749	1-127-876-11	CERAMIC	0.01uF	10%	50V
C750	1-126-964-11	ELECT	10uF	20%	50V
C751	1-126-963-11	ELECT	4.7uF	20%	50V
C752	1-127-876-11	CERAMIC	0.01uF	10%	50V
C753	1-165-722-11	ELECT	100uF	20%	10V
C754	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C755	1-102-233-00	CERAMIC	33PF	10%	500V
C756	1-162-282-31	CERAMIC	100PF	10%	50V
C757	1-162-282-31	CERAMIC	100PF	10%	50V
C760	1-126-947-11	ELECT	47uF	20%	35V
C761	1-136-157-00	FILM	0.022uF	5%	50V
C762	1-126-964-11	ELECT	10uF	20%	50V
C766	1-162-815-11	CERAMIC	47PF	5%	500V
C767	1-162-815-11	CERAMIC	47PF	5%	500V
C770	1-162-286-31	CERAMIC	220PF	10%	50V
C791	1-126-923-91	ELECT	220uF	20%	10V
C801	1-126-947-11	ELECT	47uF	20%	35V
C802	1-126-947-11	ELECT	47uF	20%	35V
C803	1-165-960-11	ELECT (BLOCK)	6800uF	20%	71V
C804	1-165-960-11	ELECT (BLOCK)	6800uF	20%	71V
C805	1-135-851-21	MYLAR	0.22uF		100V
C806	1-135-851-21	MYLAR	0.22uF		100V
C807	1-126-947-11	ELECT	47uF	20%	35V
C808	1-126-947-11	ELECT	47uF	20%	35V
C809	1-127-888-11	CERAMIC	0.1uF	10%	50V
C810	1-127-888-11	CERAMIC	0.1uF	10%	50V
C811	1-127-888-11	CERAMIC	0.1uF	10%	50V
C822	1-126-947-11	ELECT	47uF	20%	35V
C830	1-127-888-11	CERAMIC	0.1uF	10%	50V
C831	1-127-888-11	CERAMIC	0.1uF	10%	50V
C832	1-126-936-11	ELECT	3300uF	20%	16V
C842	1-126-947-11	ELECT	47uF	20%	35V
C3003	1-128-805-11	CERAMIC	47PF	5%	50V
C3005	1-126-963-11	ELECT	4.7uF	20%	50V
C3007	1-127-888-11	CERAMIC	0.1uF	10%	50V
C3008	1-126-947-11	ELECT	47uF	20%	35V
C3009	1-126-947-11	ELECT	47uF	20%	35V
C3012	1-127-888-11	CERAMIC	0.1uF	10%	50V
C3013	1-127-888-11	CERAMIC	0.1uF	10%	50V
CC02	1-162-282-31	CERAMIC	100PF	10%	50V (SP, SP6, AUS)
CC04	1-162-282-31	CERAMIC	100PF	10%	50V (SP, SP6, AUS)
CC05	1-162-282-31	CERAMIC	100PF	10%	50V (SP, SP6, AUS)
CC06	1-162-282-31	CERAMIC	100PF	10%	50V (SP, SP6, AUS)
CC07	1-162-282-31	CERAMIC	100PF	10%	50V (SP, SP6, AUS)

Ref. No.	Part No.	Description			Remark
CC08	1-162-282-31	CERAMIC	100PF	10% 50V	(SP, SP6, AUS)
CC09	1-162-282-31	CERAMIC	100PF	10% 50V	(SP, SP6, AUS)
CC11	1-127-876-11	CERAMIC	0.01uF	10% 50V	(SP, SP6, AUS)
CC13	1-127-876-11	CERAMIC	0.01uF	10% 50V	(SP, SP6, AUS)
CC15	1-127-876-11	CERAMIC	0.01uF	10% 50V	(SP, SP6, AUS)
CC17	1-127-876-11	CERAMIC	0.01uF	10% 50V	(SP, SP6, AUS)
CC31	1-162-286-31	CERAMIC	220PF	10% 50V	(SP, SP6, AUS)
CC32	1-162-286-31	CERAMIC	220PF	10% 50V	(SP, SP6, AUS)
CC33	1-162-286-31	CERAMIC	220PF	10% 50V	(SP, SP6, AUS)
CC34	1-162-286-31	CERAMIC	220PF	10% 50V	(SP, SP6, AUS)
CC35	1-162-286-31	CERAMIC	220PF	10% 50V	(SP, SP6, AUS)
CC36	1-162-286-31	CERAMIC	220PF	10% 50V	(SP, SP6, AUS)
CC52	1-162-282-31	CERAMIC	100PF	10% 50V	(SP, SP6, AUS)
CC54	1-162-282-31	CERAMIC	100PF	10% 50V	(SP, SP6, AUS)
CC55	1-162-282-31	CERAMIC	100PF	10% 50V	(SP, SP6, AUS)
CC56	1-162-282-31	CERAMIC	100PF	10% 50V	(SP, SP6, AUS)
CC57	1-162-282-31	CERAMIC	100PF	10% 50V	(SP, SP6, AUS)
CC58	1-162-282-31	CERAMIC	100PF	10% 50V	(SP, SP6, AUS)
CC59	1-162-282-31	CERAMIC	100PF	10% 50V	(SP, SP6, AUS)
		< CONNECTOR >			
CNP500	1-766-715-21	CONNECTOR, BOARD TO BOARD 10P			
CNP501	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P			
CNP503	1-779-978-11	PIN, CONNECTOR 3P			
* CNP801	1-564-104-00	PIN, CONNECTOR (3.96mm PITCH) 3P			
CNP802	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
CNP806	1-779-978-11	PIN, CONNECTOR 3P			
CNP911	1-779-977-11	PIN, CONNECTOR 6P			
CNP912	1-691-766-11	PLUG (MICRO CONNECTOR) 4P			
CNP913	1-784-922-11	PIN, CONNECTOR 5P			
		< DIODE >			
D505	8-719-991-33	DIODE 1SS133T-72			
D529	8-719-991-33	DIODE 1SS133T-72			
D540	8-719-991-33	DIODE 1SS133T-72			
D560	8-719-991-33	DIODE 1SS133T-72			
D580	8-719-991-33	DIODE 1SS133T-72			
D585	8-719-991-33	DIODE 1SS133T-72			
D605	8-719-991-33	DIODE 1SS133T-72			
D610	8-719-991-33	DIODE 1SS133T-72			
D640	8-719-991-33	DIODE 1SS133T-72			
D665	8-719-991-33	DIODE 1SS133T-72			
D680	8-719-991-33	DIODE 1SS133T-72			
D690	8-719-934-21	DIODE HZS30-1LTA			
D691	8-719-991-33	DIODE 1SS133T-72			
D692	8-719-991-33	DIODE 1SS133T-72			
D693	8-719-986-54	DIODE HZS24-1LTA			
D705	8-719-991-33	DIODE 1SS133T-72			
D710	8-719-991-33	DIODE 1SS133T-72			
D721	8-719-991-33	DIODE 1SS133T-72			
D722	8-719-991-33	DIODE 1SS133T-72			
D729	8-719-991-33	DIODE 1SS133T-72			
D732	8-719-991-33	DIODE 1SS133T-72			
D740	8-719-991-33	DIODE 1SS133T-72			
D749	8-719-991-33	DIODE 1SS133T-72			
D750	8-719-991-33	DIODE 1SS133T-72			
D765	8-719-991-33	DIODE 1SS133T-72			
D791	8-719-991-33	DIODE 1SS133T-72			
D801	8-719-933-95	DIODE HZS20-1LTA			
D802	8-719-072-05	DIODE RBV-602LF-A			
D804	8-719-068-28	DIODE HZ6.8BP-TK			
D805	6-500-522-11	DIODE 10EDB40-TA2B5			
D806	6-500-522-11	DIODE 10EDB40-TA2B5			
D807	6-500-522-11	DIODE 10EDB40-TA2B5			
D808	6-500-522-11	DIODE 10EDB40-TA2B5			
D841	8-719-981-96	DIODE MTZJ-3.0			
D896	8-719-043-76	DIODE AK04V0			
D3001	8-719-947-16	DIODE MTZJ-T-72-5.1A			
		< IC >			
IC401	6-707-362-01	IC BD3451KS			
IC402	8-759-167-88	IC NJM4565D			
IC501	6-700-943-01	IC uPC2581V-S			
IC601	6-700-943-01	IC uPC2581V-S			
IC691	8-759-167-88	IC NJM4565D			
IC701	6-700-943-01	IC uPC2581V-S			
IC801	8-759-071-48	IC TA7807S			
IC802	8-759-071-47	IC TA79007S			
IC3001	8-759-167-88	IC NJM4565D			
		< JACK >			
J309	1-793-777-12	JACK, PIN 2P (AUDIO OUT/SUB WOOFER)			
J401	1-793-775-12	JACK, PIN 6P (FRONT,SURROUND,SUB WOOFER,CENTER/MULTI CH IN)			
J402	1-770-614-11	JACK, PIN 4P (SA-CD/CD IN,MD/TAPE OUT)			
J403	1-770-614-11	JACK, PIN 4P (MD/TAPE IN,DVD AUDIO IN)			
J404	1-774-411-11	JACK, PIN 6P (VIDEO 2/AUDIO IN,VIDEO 1/AUDIO OUT,VIDEO 1/AUDIO IN)			
		< COIL >			
L601	1-420-872-52	COIL, AIR-CORE			
L651	1-420-872-52	COIL, AIR-CORE			
L701	1-420-872-52	COIL, AIR-CORE			
L751	1-420-872-52	COIL, AIR-CORE			
L3001	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q501	8-729-119-76	TRANSISTOR	2SA1115TP-EF		
Q502	8-729-141-30	TRANSISTOR	2SC3623ATP-LK		

MAIN

Ref. No.	Part No.	Description		Remark
Q505	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP	
Q506	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP	
Q535	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP	
Q536	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP	
Q540	8-729-281-53	TRANSISTOR	2SC1815GR-TPE2	
Q560	8-729-119-78	TRANSISTOR	2SC1740S-QRT	
Q571	8-729-119-76	TRANSISTOR	2SA1115TP-EF	
Q572	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	
Q580	8-729-281-53	TRANSISTOR	2SC1815GR-TPE2	
Q601	8-729-119-76	TRANSISTOR	2SA1115TP-EF	
Q602	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	
Q605	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP	
Q606	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP	
Q610	8-729-119-78	TRANSISTOR	2SC1740S-QRT	
Q640	8-729-281-53	TRANSISTOR	2SC1815GR-TPE2	
Q651	8-729-119-76	TRANSISTOR	2SA1115TP-EF	
Q652	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	
Q655	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP	
Q656	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP	
Q680	8-729-281-53	TRANSISTOR	2SC1815GR-TPE2	
Q691	8-729-281-53	TRANSISTOR	2SC1815GR-TPE2	
Q692	8-729-029-40	TRANSISTOR	DTA124ESA-TP	
Q693	8-729-281-53	TRANSISTOR	2SC1815GR-TPE2	
Q694	8-729-281-53	TRANSISTOR	2SC1815GR-TPE2	
Q695	8-729-119-76	TRANSISTOR	2SA1115TP-EF	
Q701	8-729-119-76	TRANSISTOR	2SA1115TP-EF	
Q702	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	
Q705	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP	
Q706	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP	
Q710	8-729-119-78	TRANSISTOR	2SC1740S-QRT	
Q722	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA	
Q723	8-729-119-78	TRANSISTOR	2SC1740S-QRT	
Q725	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP	
Q740	8-729-281-53	TRANSISTOR	2SC1815GR-TPE2	
Q750	8-729-281-53	TRANSISTOR	2SC1815GR-TPE2	
Q751	8-729-119-76	TRANSISTOR	2SA1115TP-EF	
Q752	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	
Q755	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP	
Q756	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP	
Q790	8-729-119-78	TRANSISTOR	2SC1740S-QRT	
Q793	8-729-119-78	TRANSISTOR	2SC1740S-QRT	
Q795	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP	
Q801	8-729-140-97	TRANSISTOR	2SB734-T-34	
Q3001	8-729-281-53	TRANSISTOR	2SC1815GR-TPE2	
		< RESISTOR >		
R402	1-247-831-91	CARBON	1K 5% 1/4W	
R404	1-247-831-91	CARBON	1K 5% 1/4W	
R405	1-247-831-91	CARBON	1K 5% 1/4W	
R406	1-247-831-91	CARBON	1K 5% 1/4W	
R407	1-247-831-91	CARBON	1K 5% 1/4W	
R408	1-247-831-91	CARBON	1K 5% 1/4W	
R409	1-247-831-91	CARBON	1K 5% 1/4W	
R428	1-247-831-91	CARBON	1K 5% 1/4W	
R429	1-247-831-91	CARBON	1K 5% 1/4W	
R431	1-247-831-91	CARBON	1K 5% 1/4W	
R432	1-247-831-91	CARBON	1K 5% 1/4W	
R433	1-247-831-91	CARBON	1K 5% 1/4W	
R434	1-247-831-91	CARBON	1K 5% 1/4W	
R435	1-247-831-91	CARBON	1K 5% 1/4W	
R436	1-247-831-91	CARBON	1K 5% 1/4W	
R452	1-247-831-91	CARBON	1K 5% 1/4W	
R454	1-247-831-91	CARBON	1K 5% 1/4W	
R455	1-247-831-91	CARBON	1K 5% 1/4W	
R456	1-247-831-91	CARBON	1K 5% 1/4W	
R457	1-247-831-91	CARBON	1K 5% 1/4W	
R458	1-247-831-91	CARBON	1K 5% 1/4W	
R459	1-247-831-91	CARBON	1K 5% 1/4W	
R468	1-247-879-91	CARBON	100K 5% 1/4W	
R469	1-247-831-91	CARBON	1K 5% 1/4W	
R470	1-247-871-91	CARBON	47K 5% 1/4W	
R473	1-249-429-11	CARBON	10K 5% 1/4W	
R474	1-249-429-11	CARBON	10K 5% 1/4W	
R475	1-249-429-11	CARBON	10K 5% 1/4W	
R476	1-249-429-11	CARBON	10K 5% 1/4W	
R480	1-247-871-91	CARBON	47K 5% 1/4W	
R499	1-247-871-91	CARBON	47K 5% 1/4W	
R501	1-247-831-91	CARBON	1K 5% 1/4W	
R502	1-249-439-11	CARBON	68K 5% 1/4W	
R503	1-249-421-11	CARBON	2.2K 5% 1/4W	
R505	1-249-439-11	CARBON	68K 5% 1/4W	
R510	1-249-421-11	CARBON	2.2K 5% 1/4W	
R511	1-249-440-11	CARBON	82K 5% 1/4W	
R513	1-249-414-11	CARBON	560 5% 1/4W	
⚠R514	1-249-399-11	CARBON	33 5% 1/4W	
⚠R515	1-249-399-11	CARBON	33 5% 1/4W	
⚠R516	1-234-182-11	ENCAPSULATED COMPONENT		
⚠R517	1-249-393-11	CARBON	10 5% 1/4W	
R520	1-247-847-91	CARBON	4.7K 5% 1/4W	
⚠R521	1-240-855-81	CARBON	6.2K 5% 1/4W	
R522	1-249-419-11	CARBON	1.5K 5% 1/4W	
R523	1-247-871-91	CARBON	47K 5% 1/4W	
R524	1-249-431-11	CARBON	15K 5% 1/4W	
R525	1-249-439-11	CARBON	68K 5% 1/4W	
⚠R526	1-234-182-11	ENCAPSULATED COMPONENT		
R529	1-249-429-11	CARBON	10K 5% 1/4W	
R530	1-247-847-91	CARBON	4.7K 5% 1/4W	
⚠R531	1-240-855-81	CARBON	6.2K 5% 1/4W	
R532	1-249-429-11	CARBON	10K 5% 1/4W	
R533	1-247-871-91	CARBON	47K 5% 1/4W	
R534	1-249-431-11	CARBON	15K 5% 1/4W	
R535	1-249-439-11	CARBON	68K 5% 1/4W	
⚠R537	1-249-393-11	CARBON	10 5% 1/4W	
R539	1-247-879-91	CARBON	100K 5% 1/4W	
R540	1-247-863-91	CARBON	22K 5% 1/4W	
R546	1-249-431-11	CARBON	15K 5% 1/4W	
R553	1-249-421-11	CARBON	2.2K 5% 1/4W	
R554	1-249-439-11	CARBON	68K 5% 1/4W	
R555	1-247-847-91	CARBON	4.7K 5% 1/4W	
R556	1-247-871-91	CARBON	47K 5% 1/4W	
R557	1-249-431-11	CARBON	15K 5% 1/4W	
R561	1-247-831-91	CARBON	1K 5% 1/4W	
R562	1-249-439-11	CARBON	68K 5% 1/4W	
R570	1-249-421-11	CARBON	2.2K 5% 1/4W	
R571	1-249-440-11	CARBON	82K 5% 1/4W	

Ref. No.	Part No.	Description			Remark
R572	1-249-419-11	CARBON	1.5K	5%	1/4W
R573	1-247-871-91	CARBON	47K	5%	1/4W
⚠R574	1-249-399-11	CARBON	33	5%	1/4W
⚠R575	1-249-399-11	CARBON	33	5%	1/4W
R576	1-249-414-11	CARBON	560	5%	1/4W
R580	1-247-863-91	CARBON	22K	5%	1/4W
R585	1-247-847-91	CARBON	4.7K	5%	1/4W
R586	1-247-871-91	CARBON	47K	5%	1/4W
R587	1-249-431-11	CARBON	15K	5%	1/4W
R588	1-249-431-11	CARBON	15K	5%	1/4W
R601	1-247-831-91	CARBON	1K	5%	1/4W
R602	1-249-439-11	CARBON	68K	5%	1/4W
R603	1-249-421-11	CARBON	2.2K	5%	1/4W
R604	1-249-439-11	CARBON	68K	5%	1/4W
R610	1-249-421-11	CARBON	2.2K	5%	1/4W
R611	1-249-440-11	CARBON	82K	5%	1/4W
R613	1-249-414-11	CARBON	560	5%	1/4W
⚠R614	1-249-399-11	CARBON	33	5%	1/4W
⚠R615	1-249-399-11	CARBON	33	5%	1/4W
⚠R616	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R617	1-249-393-11	CARBON	10	5%	1/4W
⚠R618	1-249-389-11	CARBON	4.7	5%	1/4W
R620	1-247-847-91	CARBON	4.7K	5%	1/4W
⚠R621	1-240-855-81	CARBON	6.2K	5%	1/4W
R622	1-249-419-11	CARBON	1.5K	5%	1/4W
R623	1-247-871-91	CARBON	47K	5%	1/4W
R624	1-249-431-11	CARBON	15K	5%	1/4W
R625	1-249-439-11	CARBON	68K	5%	1/4W
R631	1-249-421-11	CARBON	2.2K	5%	1/4W
⚠R634	1-249-404-00	CARBON	82	5%	1/4W
R638	1-249-439-11	CARBON	68K	5%	1/4W
R640	1-247-863-91	CARBON	22K	5%	1/4W
R648	1-249-431-11	CARBON	15K	5%	1/4W
R651	1-247-831-91	CARBON	1K	5%	1/4W
R652	1-249-439-11	CARBON	68K	5%	1/4W
R653	1-249-421-11	CARBON	2.2K	5%	1/4W
R654	1-249-439-11	CARBON	68K	5%	1/4W
R655	1-247-847-91	CARBON	4.7K	5%	1/4W
R656	1-247-871-91	CARBON	47K	5%	1/4W
R657	1-249-431-11	CARBON	15K	5%	1/4W
R660	1-249-421-11	CARBON	2.2K	5%	1/4W
R661	1-249-440-11	CARBON	82K	5%	1/4W
R663	1-249-414-11	CARBON	560	5%	1/4W
⚠R664	1-249-399-11	CARBON	33	5%	1/4W
⚠R665	1-249-399-11	CARBON	33	5%	1/4W
⚠R666	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R667	1-249-393-11	CARBON	10	5%	1/4W
⚠R668	1-249-389-11	CARBON	4.7	5%	1/4W
R669	1-247-847-91	CARBON	4.7K	5%	1/4W
⚠R671	1-240-855-81	CARBON	6.2K	5%	1/4W
R672	1-249-419-11	CARBON	1.5K	5%	1/4W
R673	1-247-871-91	CARBON	47K	5%	1/4W
R674	1-249-431-11	CARBON	15K	5%	1/4W
R675	1-247-847-91	CARBON	4.7K	5%	1/4W
R676	1-247-871-91	CARBON	47K	5%	1/4W
R677	1-249-431-11	CARBON	15K	5%	1/4W
R680	1-247-863-91	CARBON	22K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R681	1-249-431-11	CARBON	15K	5%	1/4W
R689	1-249-429-11	CARBON	10K	5%	1/4W
R690	1-247-887-00	CARBON	220K	5%	1/4W
R691	1-215-888-00	METAL OXIDE	220	5%	2W
R692	1-215-889-00	METAL OXIDE	330	5%	2W
R693	1-249-429-11	CARBON	10K	5%	1/4W
R694	1-249-429-11	CARBON	10K	5%	1/4W
R695	1-249-429-11	CARBON	10K	5%	1/4W
R696	1-247-871-91	CARBON	47K	5%	1/4W
R697	1-247-871-91	CARBON	47K	5%	1/4W
R698	1-249-429-11	CARBON	10K	5%	1/4W
R699	1-247-895-00	CARBON	470K	5%	1/4W
R700	1-249-429-11	CARBON	10K	5%	1/4W
R701	1-247-831-91	CARBON	1K	5%	1/4W
R702	1-249-439-11	CARBON	68K	5%	1/4W
R703	1-249-421-11	CARBON	2.2K	5%	1/4W
R704	1-249-439-11	CARBON	68K	5%	1/4W
R705	1-247-895-00	CARBON	470K	5%	1/4W
R706	1-215-888-00	METAL OXIDE	220	5%	2W
R710	1-249-421-11	CARBON	2.2K	5%	1/4W
R711	1-249-440-11	CARBON	82K	5%	1/4W
R713	1-249-414-11	CARBON	560	5%	1/4W
⚠R714	1-249-399-11	CARBON	33	5%	1/4W
⚠R715	1-249-399-11	CARBON	33	5%	1/4W
⚠R716	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R717	1-249-393-11	CARBON	10	5%	1/4W
⚠R718	1-249-389-11	CARBON	4.7	5%	1/4W
R719	1-247-847-91	CARBON	4.7K	5%	1/4W
⚠R721	1-240-855-81	CARBON	6.2K	5%	1/4W
R722	1-249-419-11	CARBON	1.5K	5%	1/4W
R723	1-247-871-91	CARBON	47K	5%	1/4W
R724	1-249-431-11	CARBON	15K	5%	1/4W
R725	1-249-439-11	CARBON	68K	5%	1/4W
R729	1-249-429-11	CARBON	10K	5%	1/4W
R731	1-249-421-11	CARBON	2.2K	5%	1/4W
⚠R732	1-249-381-11	CARBON	1	5%	1/4W
⚠R733	1-249-381-11	CARBON	1	5%	1/4W
⚠R734	1-249-404-00	CARBON	82	5%	1/4W
R735	1-249-427-11	CARBON	6.8K	5%	1/4W
R736	1-247-831-91	CARBON	1K	5%	1/4W
R737	1-249-436-11	CARBON	39K	5%	1/4W
R739	1-247-879-91	CARBON	100K	5%	1/4W
R740	1-247-863-91	CARBON	22K	5%	1/4W
R741	1-249-431-11	CARBON	15K	5%	1/4W
R743	1-249-431-11	CARBON	15K	5%	1/4W
R744	1-249-431-11	CARBON	15K	5%	1/4W
R745	1-247-847-91	CARBON	4.7K	5%	1/4W
R746	1-247-871-91	CARBON	47K	5%	1/4W
R747	1-249-431-11	CARBON	15K	5%	1/4W
R748	1-249-431-11	CARBON	15K	5%	1/4W
R749	1-249-429-11	CARBON	10K	5%	1/4W
R750	1-247-863-91	CARBON	22K	5%	1/4W
R751	1-247-831-91	CARBON	1K	5%	1/4W
R752	1-249-439-11	CARBON	68K	5%	1/4W
R753	1-249-421-11	CARBON	2.2K	5%	1/4W
R754	1-249-439-11	CARBON	68K	5%	1/4W
R755	1-247-847-91	CARBON	4.7K	5%	1/4W
R756	1-247-871-91	CARBON	47K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R757	1-249-431-11	CARBON	15K	5%	1/4W
R758	1-249-431-11	CARBON	15K	5%	1/4W
R759	1-247-879-91	CARBON	100K	5%	1/4W
R760	1-249-421-11	CARBON	2.2K	5%	1/4W
R761	1-249-440-11	CARBON	82K	5%	1/4W
R763	1-249-414-11	CARBON	560	5%	1/4W
⚠R764	1-249-399-11	CARBON	33	5%	1/4W
⚠R765	1-249-399-11	CARBON	33	5%	1/4W
⚠R766	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R767	1-249-393-11	CARBON	10	5%	1/4W
⚠R768	1-249-389-11	CARBON	4.7	5%	1/4W
R769	1-247-847-91	CARBON	4.7K	5%	1/4W
⚠R771	1-240-855-81	CARBON	6.2K	5%	1/4W
R772	1-249-419-11	CARBON	1.5K	5%	1/4W
R773	1-247-871-91	CARBON	47K	5%	1/4W
R775	1-249-439-11	CARBON	68K	5%	1/4W
R778	1-249-431-11	CARBON	15K	5%	1/4W
R780	1-249-429-11	CARBON	10K	5%	1/4W
R791	1-249-421-11	CARBON	2.2K	5%	1/4W
R792	1-215-868-00	METAL OXIDE	680	5%	1W
⚠R793	1-249-404-00	CARBON	82	5%	1/4W
R794	1-215-868-00	METAL OXIDE	680	5%	1W
⚠R802	1-249-409-11	CARBON	220	5%	1/4W
⚠R803	1-249-389-11	CARBON	4.7	5%	1/4W
R804	1-249-429-11	CARBON	10K	5%	1/4W
R806	1-247-863-91	CARBON	22K	5%	1/4W
R840	1-249-427-11	CARBON	6.8K	5%	1/4W
R844	1-247-863-91	CARBON	22K	5%	1/4W
⚠R910	1-240-877-11	FUSIBLE	0.15	5%	1/2W
R3001	1-247-863-91	CARBON	22K	5%	1/4W
R3002	1-247-863-91	CARBON	22K	5%	1/4W
R3003	1-247-847-91	CARBON	4.7K	5%	1/4W
R3005	1-249-421-11	CARBON	2.2K	5%	1/4W
R3006	1-249-429-11	CARBON	10K	5%	1/4W
R3007	1-249-414-11	CARBON	560	5%	1/4W
⚠R3008	1-249-393-11	CARBON	10	5%	1/4W
⚠RR11	1-249-393-11	CARBON	10	5%	1/4W (SP, SP6, AUS)
⚠RR12	1-249-393-11	CARBON	10	5%	1/4W (SP, SP6, AUS)
⚠RR13	1-249-393-11	CARBON	10	5%	1/4W (SP, SP6, AUS)
⚠RR14	1-249-393-11	CARBON	10	5%	1/4W (SP, SP6, AUS)
		< RELAY >			
RY560	1-755-267-11	RELAY			
RY601	1-755-170-11	RELAY (12V)			
RY701	1-755-170-11	RELAY (12V)			
RY791	1-755-170-11	RELAY (12V)			
		< TERMINAL >			
TM601	1-780-364-11	TERMINAL BOARD (SP) (8P) (SURROUND,FRONT/SPEAKERS IMPEDANCE 6-16Ω)			

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Ref. No.	Part No.	Description			Remark
		POWER BOARD			
		**********			
		< RESISTOR >			
R114	1-247-831-91	CARBON	1K	5%	1/4W
		< SWITCH >			
S100	1-771-410-21	SWITCH, TACTILE (**I**/⏻)			
S115	1-771-410-21	SWITCH, TACTILE (SPEAKERS/ON/OFF)			

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		SPEAKER C/SB BOARD			
		**********			
		< CAPACITOR >			
CC16	1-127-876-11	CERAMIC	0.01uF	10%	50V
CC17	1-127-876-11	CERAMIC	0.01uF	10%	50V
		< CONNECTOR >			
* CNP503	1-564-241-11	PIN, CONNECTOR (3.96mm PITCH) 4P			
		< DIODE >			
D510	8-719-991-33	DIODE 1SS133T-72			
		< COIL >			
L571	1-420-872-52	COIL, AIR-CORE			
L751	1-420-872-52	COIL, AIR-CORE			
		< TRANSISTOR >			
Q550	8-729-119-78	TRANSISTOR	2SC1740S-QRT		
		< RESISTOR >			
R531	1-249-421-11	CARBON	2.2K	5%	1/4W
⚠R534	1-249-404-00	CARBON	82	5%	1/4W
⚠R578	1-249-389-11	CARBON	4.7	5%	1/4W
⚠R751	1-249-389-11	CARBON	4.7	5%	1/4W
⚠RR16	1-249-393-11	CARBON	10	5%	1/4W
⚠RR17	1-249-393-11	CARBON	10	5%	1/4W
		< RELAY >			
RY501	1-755-170-11	RELAY (12V)			
		< TERMINAL >			
TM501	1-780-365-11	TERMINAL BOARD (SP) (4P) (SURROUND BACK,CENTER)			

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		STANDBY BOARD			
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		< CAPACITOR >			
C913	1-127-888-11	CERAMIC	0.1uF	10%	50V
C914	1-127-888-11	CERAMIC	0.1uF	10%	50V
C915	1-126-943-11	ELECT	2200uF	20%	25V
C916	1-126-942-61	ELECT	1000uF	20%	25V
C920	1-127-888-11	CERAMIC	0.1uF	10%	50V

Ref. No.	Part No.	Description			Remark
C921	1-127-888-11	CERAMIC	0.1uF	10%	50V
C924	1-126-960-11	ELECT	1uF	20%	50V
C950	1-126-936-11	ELECT	3300uF	20%	16V
		< CONNECTOR >			
CNP801	1-784-922-11	PIN, CONNECTOR 5P			
CNP804	1-564-506-11	PLUG, CONNECTOR 3P			
CNP901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
CNP902	1-794-577-21	PIN, CONNECTOR (POWER)			
CNP903	1-779-977-11	PIN, CONNECTOR 6P			
CNP906	1-568-106-11	PIN, CONNECTOR (3.96mm PITCH) 4P (E51)			
		< DIODE >			
D901	8-719-991-33	DIODE 1SS133T-72			
D910	6-500-522-11	DIODE 10EDB40-TA2B5			
D911	6-500-522-11	DIODE 10EDB40-TA2B5			
D912	6-500-522-11	DIODE 10EDB40-TA2B5			
D913	6-500-522-11	DIODE 10EDB40-TA2B5			
D914	8-719-991-33	DIODE 1SS133T-72			
D915	8-719-991-33	DIODE 1SS133T-72			
D920	6-500-522-11	DIODE 10EDB40-TA2B5			
D921	6-500-522-11	DIODE 10EDB40-TA2B5			
D922	6-500-522-11	DIODE 10EDB40-TA2B5			
D923	6-500-522-11	DIODE 10EDB40-TA2B5			
		< FUSE HOLDER >			
FH901	1-533-217-41	HOLDER, FUSE			
FH951	1-533-217-41	HOLDER, FUSE			
		< GROUND TERMINAL>			
G901	1-537-738-21	TERMINAL, GROUND			
		< TRANSISTOR >			
Q901	8-729-119-78	TRANSISTOR	2SC1740S-QRT		
Q921	8-729-119-78	TRANSISTOR	2SC1740S-QRT		
		< RESISTOR >			
⚠R810	1-243-634-91	FUSIBLE	0.22	5%	1/2W
⚠R811	1-243-634-91	FUSIBLE	0.22	5%	1/2W
R902	1-247-871-91	CARBON	47K	5%	1/4W
R903	1-249-421-11	CARBON	2.2K	5%	1/4W
⚠R904	1-249-381-11	CARBON	1	5%	1/4W
R921	1-247-871-91	CARBON	47K	5%	1/4W
R922	1-247-863-91	CARBON	22K	5%	1/4W
R923	1-249-429-11	CARBON	10K	5%	1/4W
		< RELAY >			
⚠RY901	1-755-541-11	RELAY			
		< TRANSFORMER >			
⚠T902	1-443-517-11	POWER TRANSFORMER (SP, AUS)			
⚠T902	1-443-518-11	POWER TRANSFORMER (MX)			
⚠T902	1-443-520-11	POWER TRANSFORMER (E51)			

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Ref. No.	Part No.	Description			Remark
		VIDEO BOARD			
		**********			
		< CAPACITOR >			
C200	1-128-805-11	CERAMIC	47PF	5%	50V
C201	1-128-805-11	CERAMIC	47PF	5%	50V
C206	1-126-964-11	ELECT	10uF	20%	50V
C207	1-126-964-11	ELECT	10uF	20%	50V
C208	1-126-964-11	ELECT	10uF	20%	50V
C209	1-126-964-11	ELECT	10uF	20%	50V
C210	1-126-964-11	ELECT	10uF	20%	50V
C213	1-126-934-11	ELECT	220uF	20%	16V
C214	1-127-888-11	CERAMIC	0.1uF	10%	50V
C215	1-127-888-11	CERAMIC	0.1uF	10%	50V
C220	1-126-947-11	ELECT	47uF	20%	35V
C221	1-126-934-11	ELECT	220uF	20%	16V
C223	1-127-888-11	CERAMIC	0.1uF	10%	50V
C224	1-127-888-11	CERAMIC	0.1uF	10%	50V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-126-964-11	ELECT	10uF	20%	50V
C310	1-126-964-11	ELECT	10uF	20%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-964-11	ELECT	10uF	20%	50V
C313	1-126-964-11	ELECT	10uF	20%	50V
C314	1-127-868-11	CERAMIC	2200PF	10%	50V
C315	1-127-868-11	CERAMIC	2200PF	10%	50V
C316	1-127-868-11	CERAMIC	2200PF	10%	50V
C317	1-126-947-11	ELECT	47uF	20%	35V
C330	1-127-888-11	CERAMIC	0.1uF	10%	50V
C331	1-127-888-11	CERAMIC	0.1uF	10%	50V
C338	1-126-947-11	ELECT	47uF	20%	35V
		< CONNECTOR >			
CNP202	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
CNP203	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
CNS250	1-784-778-11	CONNECTOR, FFC 17P			
		< DIODE >			
D203	8-719-991-33	DIODE 1SS133T-72			
D204	8-719-991-33	DIODE 1SS133T-72			
		< IC >			
IC203	6-701-890-01	IC NJM2595D			
IC304	6-707-363-01	IC NJM2586AL			
IC804	8-759-245-79	IC TA79005S			
IC807	8-759-231-53	IC TA7805S			
		< JACK >			
J200	1-794-978-11	JACK, PIN 3P (VIDEO 1/VIDEO OUT, VIDEO 2/VIDEO IN, DVD/VIDEO IN)			
J201	1-815-043-11	JACK, PIN 2P (VIDEO 1/VIDEO IN, MONITOR/VIDEO OUT)			
J301	1-816-592-11	JACK, PIN 9P (COMPONENT VIDEO)			
		< RESISTOR >			
R200	1-247-804-11	CARBON	75	5%	1/4W
R201	1-247-804-11	CARBON	75	5%	1/4W
R218	1-247-804-11	CARBON	75	5%	1/4W

Ref. No.	Part No.	Description			Remark
R219	1-247-804-11	CARBON	75	5%	1/4W
R220	1-247-804-11	CARBON	75	5%	1/4W
R221	1-247-804-11	CARBON	75	5%	1/4W
R301	1-247-804-11	CARBON	75	5%	1/4W
R302	1-247-804-11	CARBON	75	5%	1/4W
R303	1-247-804-11	CARBON	75	5%	1/4W
R304	1-247-804-11	CARBON	75	5%	1/4W
R305	1-247-804-11	CARBON	75	5%	1/4W
R306	1-247-804-11	CARBON	75	5%	1/4W
R307	1-247-804-11	CARBON	75	5%	1/4W
R308	1-247-804-11	CARBON	75	5%	1/4W
R309	1-247-804-11	CARBON	75	5%	1/4W
R310	1-247-831-91	CARBON	1K	5%	1/4W
R311	1-247-831-91	CARBON	1K	5%	1/4W
R312	1-247-831-91	CARBON	1K	5%	1/4W
R313	1-247-863-91	CARBON	22K	5%	1/4W
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		VIDEO 3 BOARD			
		**********			
		< CAPACITOR >			
C293	1-127-888-11	CERAMIC	0.1uF	10%	50V
C294	1-127-888-11	CERAMIC	0.1uF	10%	50V
		< CONNECTOR >			
CN201	1-784-922-11	PIN, CONNECTOR 5P			
		< JACK >			
J298	1-819-187-11	PIN JACK 3P (VIDEO,AUDIO/VIDEO 3 IN/PORTABLE)			
		< RESISTOR >			
R298	1-247-831-91	CARBON	1K	5%	1/4W
R299	1-247-831-91	CARBON	1K	5%	1/4W
		< LEAD >			
* W290	1-690-880-31	LEAD (WITH CONNECTOR)			
**********					
		MISCELLANEOUS			
		**********			
8	1-829-023-11	WIRE (FLAT TYPE) (23 CORE)			
⚠57	1-696-847-11	CORD, POWER (AUS)			
⚠57	1-777-071-22	CORD, POWER (E51)			
⚠57	1-777-071-83	CORD, POWER (SP, SP6)			
⚠57	1-829-627-11	POWER-SUPPLY CORD (MX)			
59	1-828-993-11	WIRE (FLAT TYPE) (17 CORE)			
60	1-828-963-11	WIRE (FLAT TYPE) (11 CORE)			
⚠F901	1-532-350-00	FUSE, TIME-LAG (T4AL/250V)(MX)			
⚠F901	1-532-464-33	FUSE (T2.5AL/250V)(EXCEPT MX)			
Q503	6-702-390-01	IC MN2488-OPY-MK			
Q504	6-702-391-01	IC MP1620-OPY-MK			
Q533	6-702-390-01	IC MN2488-OPY-MK			
Q534	6-702-391-01	IC MP1620-OPY-MK			
Q603	6-702-390-01	IC MN2488-OPY-MK			
Q604	6-702-391-01	IC MP1620-OPY-MK			

Ref. No.	Part No.	Description	Remark
Q653	6-702-390-01	IC MN2488-OPY-MK	
Q654	6-702-391-01	IC MP1620-OPY-MK	
Q703	6-702-390-01	IC MN2488-OPY-MK	
Q704	6-702-391-01	IC MP1620-OPY-MK	
Q753	6-702-390-01	IC MN2488-OPY-MK	
Q754	6-702-391-01	IC MP1620-OPY-MK	
⚠T901	1-443-523-11	POWER TRANSFORMER (MX)	
⚠T901	1-443-525-11	POWER TRANSFORMER (SP, SP6, AUS)	
⚠T901	1-443-526-11	POWER TRANSFORMER (E51)	
TN1	1-693-675-11	TUNER (E51, MX)	
TN1	1-693-678-11	TUNER (SP, SP6, AUS)	

MEMO

REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2006.03	New
1.1	2006.05	Addition of SP6 model (Singapore and Malaysia models)